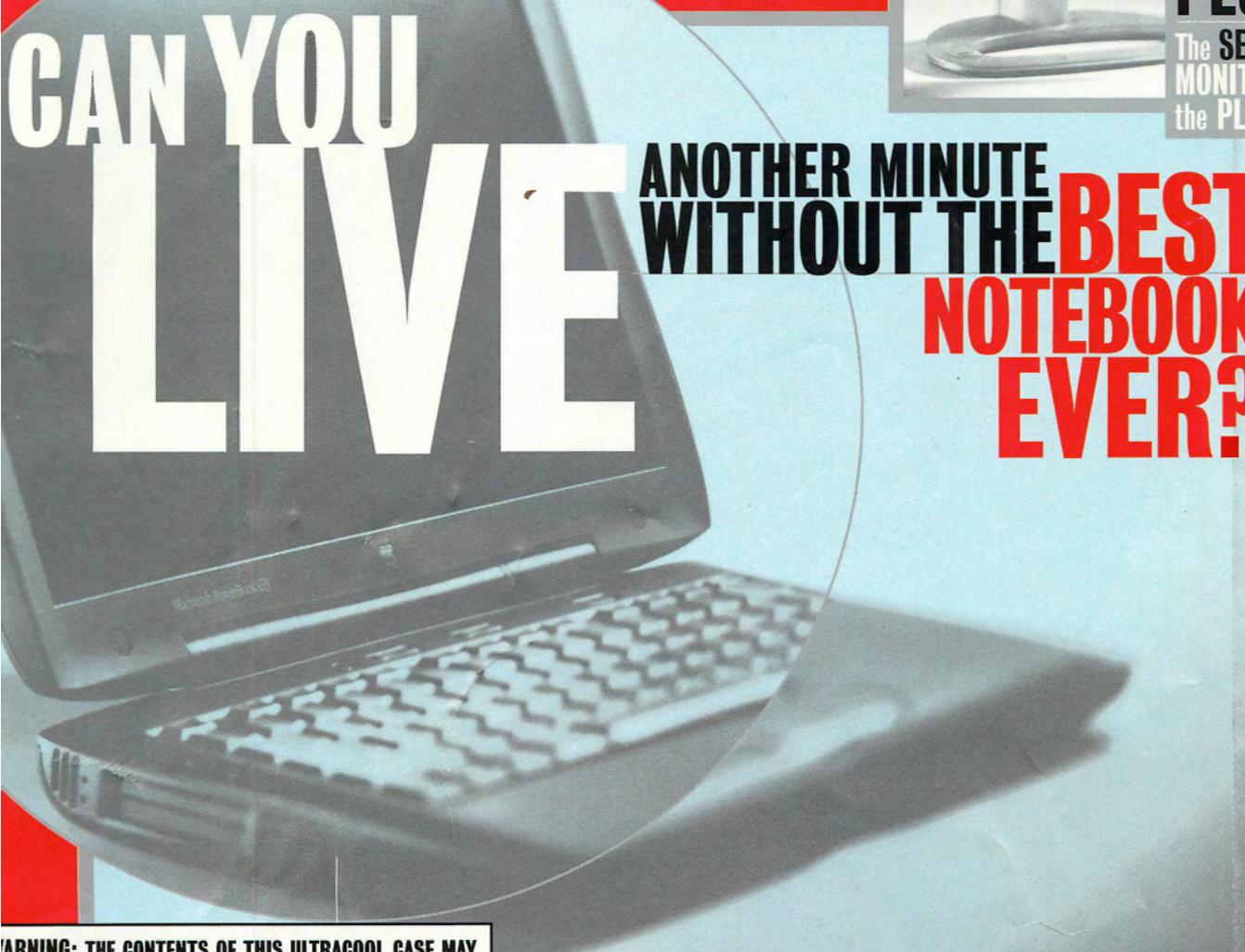


THROUGH  
E GAUNTLET  
Office, Debabelizer,  
FreeHand/Flash

# 10 RED-HOT TIPS TO SOLVE YOUR INTERNET PROBLEMS!

A better machine. A better magazine.

# MAC ADDICT 22



WARNING: THE CONTENTS OF THIS ULTRACOOL CASE MAY  
CAUSE SWEATY PALMS, RAPID BREATHING, AND LOSS OF  
CONCENTRATION. (GOOD THING IT STARTS AT UNDER \$2300.)

ROAD GEAR for your PowerBook • CONVERT a stack  
of images in seconds • PREVIEW: Star Control, Unreal



[www.macaddict.com](http://www.macaddict.com)



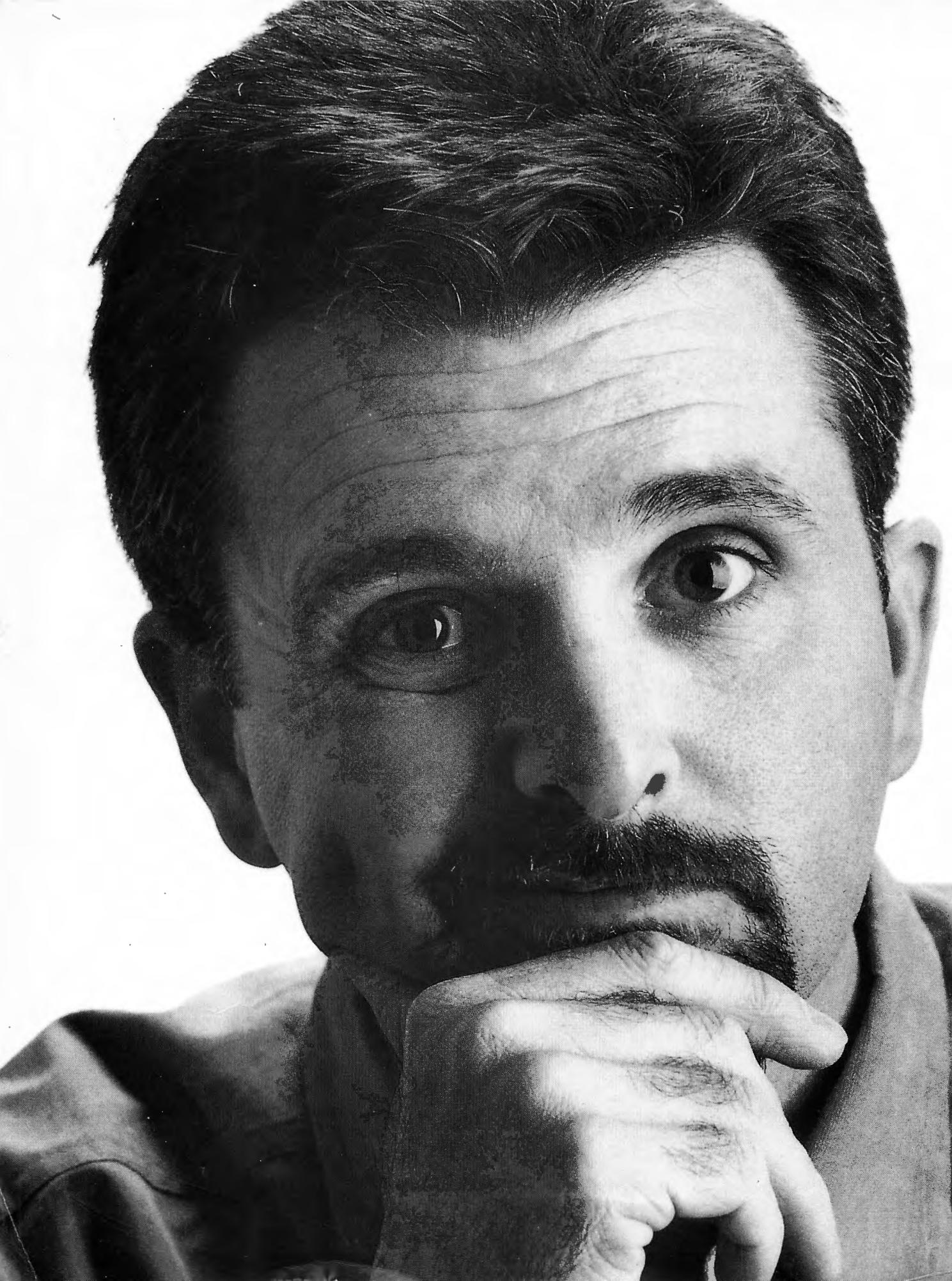
PLUS  
The SEXIEST  
MONITOR on  
the PLANET!

\$7.99 U.S. / \$8.99 CANADA

imagine  
the future of media



06>



# "I'm sick of having to settle for a slower Mac just because my budget sucks."

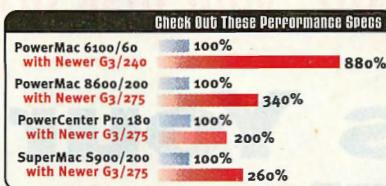
## Sometimes Newer Is Smarter Than New.

In a perfect world, we all would buy a new, top-of-the-line Mac right now. Of course, there's that little thing called money, the stuff most of us don't have coming out of our ears. That's why you need a Newer Technology MAXpowr G3 processor upgrade card. They're easy to install and save you thousands of dollars compared to buying a whole new system.

Newer Technology makes processor upgrade cards for almost every Power Mac and are adding

more machines to the list with faster processor speeds as you read this. With a MAXpowr G3 card, you'll have a faster processor with a much faster cache. In fact, the MAXpowr G3 card can make your old Mac one of the fastest desktop computers available even compared to Apple's new screaming G3 machines. Thanks to

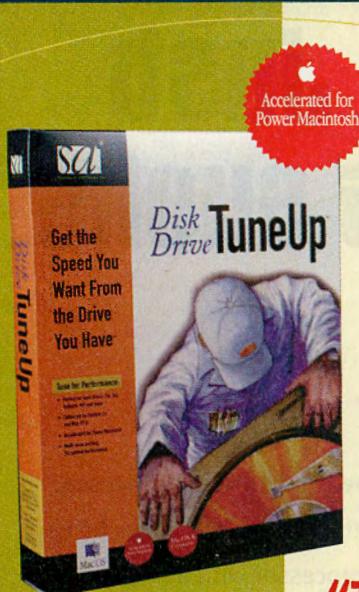
Newer Technology, your older, slower Power Mac has new life which makes waiting for a brand new machine a lot less painful.



 **newer technology**

To find out how to make your old Mac newer visit [www.newertech.com](http://www.newertech.com) or call 1-316-943-0222

# Get The Speed You Want From The Drive You Have!



## Disk Drive TuneUp 2.0 gives you:

- Blazing fast reads using our exclusive multi-level caching using RAM and Hard Disk; great for Zip™, Jaz™, MO and older hard drives
- HFS+ support for Mac OS 8.1
- Reliable IDE and SCSI drive support
- Faster bootups too!

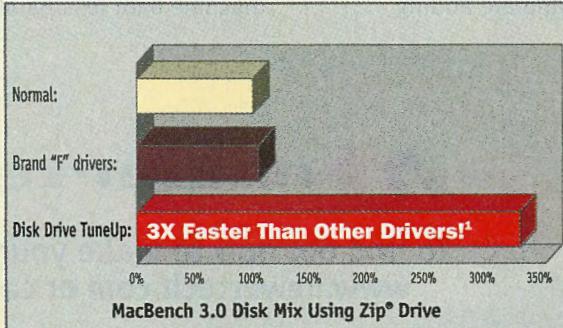
**"Tune Up" your disk drive just like your car!**

## Access Your Files Up To 3 Times Faster!

Also available from SAI:



CD/DVD Drive TuneUp™



1 Ziff Davis, MacBench 3.0 scores using a Iomega® Zip® drive on an Apple Macintosh Performa 6400/180 running Mac OS 8.0 with 24 MB RAM and VM on. All products used in this test were shipping versions available to the general public. This test and its results were not verified by Ziff-Davis. Individual gains depend on the type of media used, caching parameters established and system specifics.

Get Disk Drive TuneUp & CD/DVD  
Drive TuneUp at:

**COMP USA: 800-COMPUSA**

**MAC ZONE: 800-248-0800**

**MAC WAREHOUSE: 800-255-6237**

**MAC MALL: 800-222-2808**

**TuneUp is:**

- ✓ **Fastest**
- ✓ **Easiest**
- ✓ **Affordable**

**Work Faster Now**

RESELLERS CALL:

**INGRAM**

**MICRO**

**800-456-8000**

Disk Drive TuneUp SKU: #596358

CD/DVD Drive TuneUp SKU: #596358

**SAI**  
Software Architects Inc.

[www.softarch.com](http://www.softarch.com)

Copyright © 1997-98. All rights reserved. Disk Drive TuneUp, CD/DVD Drive TuneUp and the SAI logo are trademarks of Software Architects, Inc. Zip is a registered trademark of Iomega Corporation. Mac OS is a trademark of Apple Computer Inc. All other trademarks are trademarks or registered trademarks of their respective companies.



NO, IT'S NOT JUST a beefed-up Mac Classic. This all-in-one G3 is only one item from Apple's new crop.



I'M TELLING YOU, it takes two fingers to double-click in the woods!



DESPITE APPEARANCES, there's no one here gunning for ancient pharaohs.

JUNE 1998

Mac  
ADDICT 22

# highlights

## 22 Power to the People

Get ready to drool over the finest hardware to come out of Cupertino in years. The build-to-order PowerBook G3, the Apple Studio Display, and the new all-in-one are three reasons why Apple's future looks bright. **BY KATHY TAFEL**

## 28 'Booking Your Trip

All the gear you need to take your PowerBook on the road, whether you're blazing trails in the great outdoors or surviving the concrete jungle. **BY JASON D. O'GRADY**

## 30 Ask Dear Loomis

If you're more worried about managing your bookmarks than minding your manners, ditch Dear Abby and get your life online in line with Dear Loomis. **BY JOSEPH O. HOLMES**

# power up

## 62 GraphicConverter

Make the move to the new Mac OS Extended Format and save tons of hard drive space! It's the refreshing way to reformat.

## 66 Fun & Games

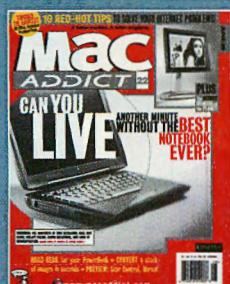
Game junkies—get a grip on your joysticks and find out what it takes to bring the fiercest, fastest, bone-crunchingest games to the Mac.

## 68 Add Tables to Your Web Pages

Take advantage of your word processor's built-in macro capabilities to make easy-to-update Web site tables, and then sit back and whistle while it works.

## 70 Disk Images

Do you think disk images are just those funky files that Apple ships its software updates in? Think again. They're great for backups, installations, and other useful—and even legal—tasks.

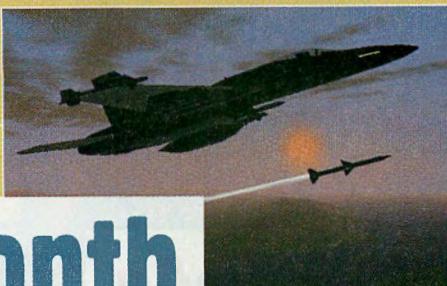


THE LUSCIOUS HARDWARE on our cover was shot on location at Apple by Aaron Lauer.

AN UMBRELLA may not protect you from falling snack meat, but Ask Dear Loomis can.



GOT A LITTLE PRESENT  
for ya, Bill. It's an air-  
to-nerd missile!



**Mac**  
**ADDICT**  
THE TEAM

PUBLISHER/EDITORIAL DIRECTOR Cheryl England

#### EDITORIAL

EDITOR David Reynolds

MANAGING EDITOR Ruth Henrich

SENIOR EDITORS Nikki Echler, Kathy Tafel

ASSOCIATE EDITOR Robert Capps (reviews)

DIGITAL MEDIA EDITOR Wade Albright

ONLINE EDITOR Mark Simmons

CONTRIBUTING EDITORS Raf Anzovin, Steven Anzovin, Joseph O. Holmes, Ross Scott Rubin, Buz Zoller

#### ART

ART DIRECTOR Ken Bousquet

ASSOCIATE ART DIRECTOR Adam Vanderhoof

DESIGNER Chris Vanderhoof

#### PRODUCTION

PRODUCTION DIRECTOR Richard Lesovoy

PRODUCTION COORDINATOR Mark Eastwood

#### ADVERTISING

NATIONAL AD MANAGER André Lengyel

REGIONAL AD MANAGER Don Kimerker

REGIONAL AD MANAGER Kevin White

MACADDICT NETWORK AD MANAGER Camilla Colegrave

MARKETING MANAGER Mary Lachapelle

ADVERTISING COORDINATOR Sharon Chan

#### CIRCULATION

NEWSSTAND DIRECTOR Bruce Eldridge

NEWSSTAND MANAGER Thea Selby

NEWSSTAND ANALYST Terry Lawson

SUBSCRIPTION DIRECTOR Kate Bailey

FULFILLMENT MANAGER Peggy Mores

DIRECT MAIL MANAGER Amy Nibbi

#### Imagine Media, Inc.

PRESIDENT, IMAGINE DIGITAL Mark Gross

VICE PRESIDENT/CIRCULATION Holly Klingel

DIRECTOR, CD-ROM DEVELOPMENT Thomas Hale

VICE PRESIDENT/COO Tom Valentino

PRESIDENT Chris Anderson

INTERNATIONAL LICENSING: Robert J. Abramson & Associates, Inc., 720 Post Road, Scarsdale, NY 10583

#### REPRINTS

For reprints, contact RMS at 717-560-2001

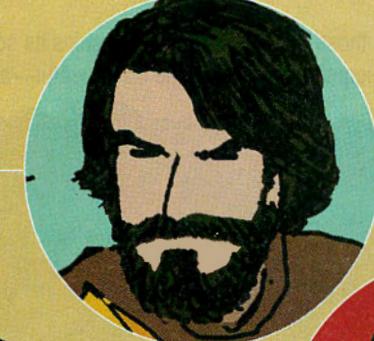
#### SUBSCRIPTION QUERIES

Please phone customer service toll free at 888-771-6222.

#### Volume 3, Issue 6

**MacAddict** (ISSN 1088-548X) is published monthly by Imagine Media, Inc., 150 North Hill Drive, Suite 40, Brisbane, CA 94005, USA. Periodical-class postage paid at Brisbane, CA, and at additional mailing offices. Newsstand distribution is handled by Curtis Circulation Co. Basic subscription rates: one year (12 issues + 12 CD-ROMs) U.S. \$39.90, Canada \$43.95, U.S. prepaid funds only. Canadian price includes postage and GST 128220688. IPM 0962392. Outside the U.S. and Canada, price is \$53.95. U.S. prepaid funds only. POSTMASTER: Send address changes to MacAddict, P.O. Box 58251, Boulder, CO 80328-8251. Imagine Media, Inc. also publishes *Boor*, *Ultra Game Players*, *Next Generation*, *PC Gamer*, *PSM*, and *The Net*. Entire contents copyright 1998, Imagine Media, Inc. All rights reserved. Reproduction in whole or in part is prohibited. Imagine Media, Inc. is not affiliated with the companies or products covered in MacAddict. Standard Mail Enclosed Edition: A5, B, B2, B3, B4 PRODUCED IN THE UNITED STATES OF AMERICA

BULK RATE  
U.S. POSTAGE PAID  
Waseca, MN  
Permit No. 348



THIN CEO OR FAT CEO  
—you make the call. No,  
wait, that was the vote for  
the Elvis stamp.



IT MIGHT BE an unbridled  
success when Halloween  
comes, but it's not as  
scary as Screenies.

Wade, why is the network so slow? Come fix it. I want  
a window in my office. Prison Guy wants another  
drink. The girl from Ipanema...



# Stranded Without the ESSENTIALS?

Get **CANVAS 5**, the only complete graphics and publishing solution.



→ **D**TP in Photoshop™? Nope. Image editing in Illustrator™? Yeah, right. Industrial strength vector illustration in XPress® 4? In their dreams. Web publishing out-of-the-box in any of these? Not a chance.

It's simple; with Canvas 5, you get all the illustration, photo editing, page layout, and web publishing tools you need in one fully integrated, easy-to-use application.

Vector and raster art — create both in Canvas 5. Text editing, page layout, and graphics production — Canvas 5 can handle it. Scanning and photo editing? You can do that, too. And web work? Use Colada™, our Java™ - based publishing tool, to instantly convert any document to a web page or an entire web site.

So pack the essentials. Get your hands on a free, 30-day trial copy of Canvas 5. Call 800.622-6827 (305.596.5644) or visit our web site at [www.deneba.com/macaddict/](http://www.deneba.com/macaddict/) And if you're already convinced you can't survive without it, visit CompUSA or your favorite reseller today.

This ad was created using nothing but Canvas 5. Try that with any other single graphics program.

© Copyright 1998 Deneba Software. All other trademarks are the property of their respective owners. Limited time offer valid only in North America.

**NEW!** Get up to speed fast with the  
Canvas 5 Video Workshop Series  
(\$59.95 SRP each). Discover the many  
uses of Canvas 5 with guided, in-  
depth instruction.

Whether you're a graphic designer or a business communicator, you will thrive with Canvas 5!

**Corporations love Canvas** because it's powerful and easy to use.

"My employees learn Canvas first because it does so many things — I don't have to train them to use a bunch of programs."  
-Alex Mann, multimedia producer, Mann Consulting

**Illustrators and designers love Canvas** for its precision and flexibility.

"Canvas is ideal for composing graphics, text and images in one program, especially for manipulating medical drawings and photographs."

Jamie Simon, senior illustrator, Salk Institute for Biological Studies

**Small businesses love Canvas** because it streamlines workflow and ramps up productivity.

"I used to work with four graphics programs. Now I use Canvas. It synthesizes everything in one package."  
-Bradley Touchstone, architect, Elliot, Marshall and Innes, Inc.

**800.6 CANVAS**

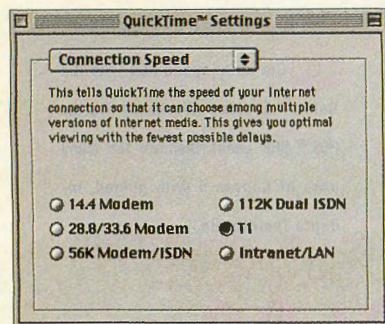


Estimated Street Price \$399.95  
Competitive Upgrade \$149.95

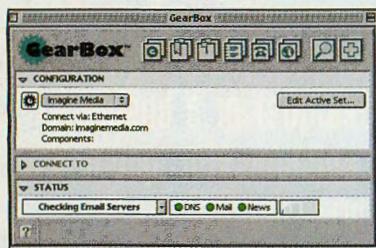
Available at:  
**COMPUSA**  
THE COMPUTER SUPERSTORE



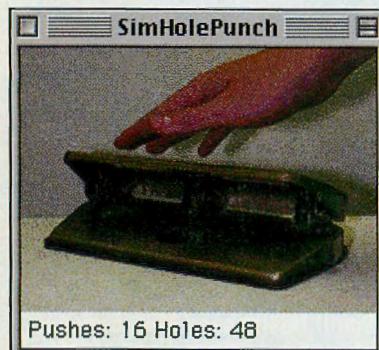
# the disc



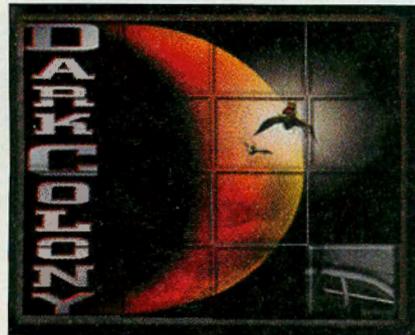
ONE OF THE FANTASTIC new features of QuickTime 3.0 is the ability to stream media over the Internet according to the speed of the connection. There's much more to this version than cross-platform parity!



ROCKSTAR STUDIO'S GEARBOX is an essential utility for people on the go. It lets you keep track of any number of Internet configurations—handy when you need to get at that vital email message and you don't want to go through half an hour of reconfiguring your email client.



YEAH, IT'S ULTIMATELY USELESS, but, as far as office supply simulations go, this one has it all. After all, what other hole punch is there that keeps track of both presses and holes punched? That's right. None.



WHEN YOU'RE DONE, the puzzle should look like this. Can you do it?

## highlights

### QuickTime 3.0

After months of waiting, it's finally here—the premier personal computer media player, bar none. You'll find QuickTime 3.0 on The Disc, and if you want to upgrade to the professional version, it's as easy as visiting Apple's Web site with your credit card. Once you've paid, you'll get a code to unlock your copy of QuickTime.



### PowerBook Essentials

If you're hitting the road with your 'Book, you'll want to install a few things from The Disc first—namely, Apple's Location Manager, Password Security, PowerBook Zoomed Video Update, and Internet Address Detectors. Also, consider GearBox, Netscape Navigator or Microsoft Internet Explorer, and Claris Emailer or Eudora Pro to stay connected. Finally, install the 6 in 1 Shareware Pack and Mars Rising for a little entertainment on the plane.

### SimHolePunch

Following the trail blazed by SimStapler, Keelan Lightfoot has created SimHolePunch. Go for the high score!

### Win Dark Colony!

If you can solve our fiendishly clever puzzle (OK, so it's really not *that* difficult), you can land yourself a copy of SSI's Dark Colony! Take command of human or alien forces and duke it out for control of Mars. Check out the demo on The Disc, and then enter the contest to win!

## goodies

### From Apple

Apple Spec Database, Apple System Profiler, AppleShare IP 5.0.3, ColorSync 2.5, Disk Copy 6.1.3, DOS Compatibility Software Update, Internet Address Detectors 1.02, Location Manager, Mac OS 8.1 updater, Mac OS 8.1 Disk Tools Images, Mac OS Runtime for Java, MoviePlayer 2.5.1, Password Security 1.0.6, PowerBook Zoomed Video Update 1.3, PC Compatibility Software Update, Personal Web Sharing, QuickTime 3.0



WHENEVER you see this icon in the magazine, pop in The Disc for a special treat.

BOO-HOO-HOO—We celebrate Kathy Tafel's last day, introduce you to the Prison Guy, and find out the secret of Pocket Monsters and Monster Balls. Hey—it's not what you think!

# With Diamonds This Perfect, The Only Thing We Cut Are The Prices.

Mitsubishi's full line of award-winning DIAMONDTRON™ aperture grille monitors have a proven reputation for quality, reliability, and value. And now you can get all this at prices lower than ever before. Plus, you'll have added confidence knowing that all Mitsubishi Diamond Plus® and Diamond Pro® Series monitors are backed by a full 3-year warranty, combined with service and support programs that are already the best in the business. With the new lower pricing, everyone can experience the DIAMONDTRON™ difference. Get all the details by contacting Mitsubishi Electronics today.



USA: 1-800-843-2515 • Canada: 1-800-387-9630 • Qwikfax: 1-800-937-2094  
World Wide Web: [www.mitsubishi-display.com](http://www.mitsubishi-display.com)

## Diamond Pro® Series

DIAMONDTRON solutions for graphics professionals

**New!** Only \$1799

Diamond Pro 1000

- 21" / 19.7" DVI\*
- 1800 x 1440 / 76 Hz
- 30-115 kHz auto-scan range

Reduced to \$1399

Diamond Pro 91TXM

- 21" / 19.7" DVI\*
- 1600 x 1200 / 75 Hz
- 30-95 kHz auto-scan range

Reduced to \$849

Diamond Pro 700

- 17" / 16.0" DVI\*
- 1600 x 1200 / 75 Hz
- 30-95 kHz auto-scan range

**New!** Only \$1499

Diamond Plus 100e

- 21" / 19.7" DVI\*
- 1600 x 1200 / 85 Hz
- 30-108 kHz auto-scan range
- USB-ready

Reduced to \$679

Diamond Pro 87TXM

- 17" / 16.0" DVI\*
- 1600 x 1200 / 66 Hz
- 30-86 kHz auto-scan range

**New!** Only \$599

Diamond Plus 70

- 17" / 16.0" DVI\*
- 1280 x 1024 / 65 Hz
- 30-70 kHz auto-scan range



 **MITSUBISHI**  
DISPLAY PRODUCTS  
*Innovation On Display*

# every month

## Software



### Communication

Claris Emailer Trial 2.0, ClearPhone Demo 4.4.5, Download Deputy 3.0, DragNet 2.0.3, Eudora Pro Demo 4, Fetch 3.0.3, GearBox 1.5, Internet Config 1.4, Internet Explorer 4.0, Internet Phone Demo 3.1, LinkPad 1.0, Netscape Communicator 4.04, URL Manager Pro 2.0, WebQuick Trial 1.4



### Configuration

Insider Updates 2.5, Symbionts 2.8.1



### Development

MacPerl 5.1.9r4, Screwy HTML Fixer 1.5



### Disk & File

Disk Charmer 3.1.2, DiskTracker 1.1.3, TechTool 1.1.7



### Fun & Games

6 in 1 Mac Shareware Pack 1.0, Beached 1.2, Bedlam 2 1.0.3, Blaster II 1.1, Dark Colony movie, Deadlock Demo, Digital Wipeout 1.1, Escape Velocity 1.0.5, Gubble Demo 1.2, Hearts Deluxe 5.0, Infinity Quest II Demo 1.0.1, Jack Demo, Mars Rising 1.0.1, NimbusVR Demo 1.0, Project Magellan Demo 2.02, SimHolePunch 1.0, Trilite 1.1



### Graphics & Sound

Acrobat Reader 3.01, DSP Screen Collection V10, Eric's Sci-fi Kal schemes, Escape Fractals 1.3, Font Box 2.6, Font Image Library 3.5.6, FONTaSEE Deluxe 2.0e, GraphicConverter 3.2, Halley Maps 1.0, Icon Archiver 2.3, Icon Machine 1.3, Liquid Audio Music Player, RealAudio Player, Rett's Desktop Picts, Siragan Gailus' Icons, Test Strip Demo 2.0.2



### Information

Soft/Hardware Tracker II 2.6, TattleTech 2.59



### Math & Science

Newton's Aquarium Demo, Powercalc 2.5, Powercalc Lite 2.5



### Updaters

BEdit 4.5.2 Update, Carmageddon 3Dfx, CINEMA 4D XL 5.1 update, Claris Organizer Updates, DragNet 2.03 Update, DW 600 Series 9.4.1, HDT™ 2.5->2.5.2 Updater, Myth 1.2 Updater, Painter 5.0.3, Pax Imperia Updates, RealPC 1.0.3, Shadow Warrior 3Dfx Update, SoftWindows95 5.03, Xclaim™ 3D Installer, Xclaim™ VR Installer



### User Interface

BeHierarchic 3.1, Default Folder 2.8.2, EjectMenu 1.1, FinderPop 1.5.9, Teflon 2.2

## Our Disc Sponsors

To find immediate information from our sponsors, go to the index (option-click any help screen). Or you can wait until you see a message from them in the lower right-hand corner of the main screen. Clicking on the message causes a TV screen to slide down from the top of the page, showcasing more information. You also can access sponsor information from the main window in the Finder.

### Bungie—Myth

800-295-0060

<http://www.bungie.com>

Myth is a tactical-level game of epic battle set in a fantasy world. A multitemetric game, Myth gives gamers unprecedented freedom to view the terrain and their forces, orbiting around the field or zooming in for a close-up. Mastery of formations and disciplined movement of armies are critical to success. Myth features cross-platform networking, while Bungie's MetaServer system makes Internet play simple. The game includes maps designed for networking, as well as alternate networking scenarios like the split-second action of *Steal the Bacon* and the brutal melee of *Last Man on the Hill*.

### EarthLink—TotalAccess

800-395-8425

<http://www.earthlink.net>

EarthLink has received consistently high marks as the nation's best Internet service provider, based on quality of service and tech support. EarthLink membership includes unlimited Internet access; unlimited email; a free personalized start page that you can customize with local weather, stock information, news, and sports scores; Web support; and all your favorite links.

You also get a free 6MB of Web space; a free subscription to bLink, EarthLink's helpful magazine; and the most popular Internet browser available—Netscape Navigator. There are two ways for you to connect: a standard 3-day trial or a special 14-day trial with a low-rate subscription to *MacAddict*.

For the 3-day trial, just install the software and enter all the information it prompts you for, including a credit card number. You can test the service for 3 days; after that, you will be billed for \$19.95—unless you cancel. This includes full service and unlimited connect time.

The 14-day trial is a bit different. Subscribe to *MacAddict* at a special low price, and you'll get 14 days to check out EarthLink. If you've already got a subscription and you take advantage of this offer, you'll get an extra 12 issues added to your account. What a deal! \$19.95 a month gives you unlimited time online and all the goodies you'd ever want. And with two great trial plans available, you've got nothing to lose.

### MacSoft—Deadlock

800-229-2714

<http://www.wizworks.com/macsoft/>

Only one race will survive. Time is short. Seven alien races struggle to build their empires, but only one will dominate. In *Deadlock*, every decision you make determines the ultimate fate of your people, your empire, and your survival. This is the incredible strategy of interplanetary conquest.

### Power On—Action Files

800-344-9160

<http://www.poweronsw.com>

Action Files from Power On Software may be the most powerful productivity utility you can buy. It provides the easiest and fastest way to manage and organize files. All the power and control you need is contained in a custom menu bar, inserted into every application's Open and Save windows. You can expand the menu bar to show vital file information, and it allows one-click sorting by name, date, kind, and more. Additionally, a powerful search engine enables you to locate files by a multitude of criteria from within the application itself. Designate files and folders as favorites and navigate back to them with a single click, or use the automatic rebound feature to return to any location. This is the ultimate replacement for Super Boomerang users and is compatible with Mac OS 7.5 through 8.1.

### Village Tronic—Picasso 540 3D card demo

800-932-6442

<http://www.villagetricom>

Did you ever work with a video card in your Mac that was able to:

- do 3D rendering in a window?
- run Glide games?
- export an animation via video out to your VCR?
- watch the current Apple commercial on ABC?
- mix different audio sources?

Never done that before? Catch your breath, it's here! Just fire up our application on The Disc and be stunned!

# the web

## highlights

### Extreme PowerBooks!

In conjunction with the release of Apple's new PowerBook G3—which should happen as you read this—we'll unveil a special showcase of our own futuristic PowerBook concepts. Are you ready for the AstroBook?

### Thinking inside the Yellow Box!

Word has it that Apple will pop the lock on the musty attic where it's been keeping Rhapsody for the past year and trot it out, blinking in the light, at the Worldwide Developers Conference. Tune in May 11 to catch up with Mac OS's long-lost twin.

### MacAddict Memory Lane

We'll turn back the clock on Memorial Day and revisit the storied history of *MacAddict*. If you thought Gil Amelio's tell-all tome was shocking, wait till you hear the scandalous story of our champagne brunch with befuddled Apple execs. Coming your way on May 31, it's *MacAddict: Too Hot for Print!*

Welcome to MacAddict  
You're at the online home of the [MacAddict magazine](#) for Mac enthusiasts. Why not sign up for our [online news](#)?

Monday, April 6, 1998  
Beta Watch: [Adobe Premiere 5.0](#)  
New look for video veterans, with rearranged windows, more manageable interface and nifty new editing features.

Beta Watch: [Fireworks 1.0b1](#)  
Macromedia's graphics tool does it all, from dynamic text effects to image-map markup.

Beta Watch: [Future Player 4.0 Public Beta 1](#)  
Successor to How-to-Daw & Connect rolls together and schedule information into a fancy one-window manager.

Apple's stock closed at \$64.44 (down 15%).

Friday, April 3, 1998  
MacAddict Network: [O'Grady's PowerPage](#)  
Say hi to the newest member of our Web site network—Jesse O'Grady's mobile Mac site. It's packed with news, reviews, and links to other Mac sites. And while we're at it, congratulations to our [PowerBook editor!](#)

New Stories: [ScanMaker 200](#)  
New Release: [MAC Speed 0.3](#)

Thursday, April 2, 1998  
Web Exclusive: [Solve Your Problem?](#)  
You may only have three PCI slots? Cry me a river, says Robert Capps. That's

THE MACADDICT  
HOME PAGE—  
now with more  
vitamins, minerals,  
and new product  
reviews!



WHENEVER you  
see this icon in  
print, visit [www.macaddict.com](http://www.macaddict.com)  
for links and  
additional  
resources.

## every month

[www.macaddict.com](http://www.macaddict.com)

<http://www.macaddict.com/issues/>

Links and extra resources to accompany this very magazine.

<http://www.macaddict.com/contact/>

Yes, we want to hear from you! Here are email addresses and more.

<http://www.macaddict.com/subscribe/>

Join us! Here's our fabulous free trial issue subscription offer.

<http://www.macaddict.com/service/>

Subscription problems? Missing issues? Vexing questions? Visit our customer service pages.

<http://www.macaddict.com/cdrom/>

Wade's liner notes on the MacAddict CD-ROM, late-breaking info, and disc replacement forms.

# MacAddict Network MN

[www.macaddictnetwork.com](http://www.macaddictnetwork.com)

<http://www.macaddict.com>



You know us, right? Well, this is our funky Web site, updated daily with fresh fun and games. Come out and play!

<http://www.evangelist.macaddict.com>



Evangelist is the official home of Guy Kawasaki's mailing list, bastion of Mac advocacy and scourge of the infidel.

<http://www.maccentral.com>



Every day, MacCentral will stuff you to the gills with hot news, product announcements, and nifty special reports.

<http://www.macsurfer.com>



MacSurfer's Headline News constantly scours the Web for all the news that's fit to link on Apple and the Mac universe.

<http://www.versiontracker.com>



VersionTracker's up-to-the-minute listings keep tabs on every Mac software product that's new, improved, or in bleeding-edge beta form.

<http://www.imgmagazine.com>



Inside Mac Games is a monthly magazine on CD-ROM devoted to Mac games, with its own news-packed Web site.

<http://www.iconfactory.com>



Iconfactory turns your drab desktop into a pixelated paradise with its fabulous selection of handcrafted icons.

<http://www.everymac.com>



EveryMac's exhaustive catalog of Macs and Mac compatibles provides complete specs and technical data (even on the semilegendar Outbound notebooks!).

<http://www.saracen.com/applejedi.html>



AppleJedi is the tub-thumping e-zine for evangelists, developers, solutions providers, and Defenders of the OS.

<http://www.practicalmac.com>



The Practical Mac offers step-by-step guides, troubleshooting tips, and a reference for all that Mac tech trivia.



# editor's note

Apple's latest hardware offerings are also its most important.

**J**une marks a first for us at *MacAddict*. We put hardware on our cover—the new PowerBook G3 and the Apple Studio Display. This wasn't a decision we made lightly, because—let's face it—how interesting is it to look at a computer case?

In this instance, though, the new PowerBook G3 and the Apple Studio Display are worthy of our cover. Not only are they way cool pieces of bona fide six-color goodness, but they're prime examples of why Apple's future is getting brighter. Apple is thinking different, designing different, and innovating again.

Everyone here is drooling over the flat-panel Apple Studio Display. Weighing in at one-tenth the mass of your average 17-inch monitor, the Studio Display is light, crisp, clear, and cool. And its stand, with a little hydraulic lift assist, is of the same kind of plastic that made the eMate such an attention-getter. The shocker is that this display is spiffy and competitively priced.

While the new Apple display is cool, the real bombshell here is the new build-to-order PowerBook G3. This is the single most important Mac to come out of Cupertino since the introduction of the Power Macintosh—more important than the 8600/9600 line, the PowerBook 1400 or 3400, and even the original build-to-order desktop G3 line that shipped last year. Here are four reasons why the PowerBook G3 is so important for Apple:

## **There's no Wintel equivalent.**

No matter how much you're willing to pay, you'll never be able to buy a Windows

Not only are they way cool pieces of bona fide six-color goodness, but they're prime examples of why Apple's future is getting brighter.



laptop that runs as fast as one of the new G3 PowerBooks.

## **It's undeniably cool.**

Apple has put a lot of effort into the design of these PowerBooks. When you see one, you want to pick it up and hold it, and not just because you know what's inside. The industrial design is stunning and will pay off.

## **It's affordable— with quality.**

Get this—you can buy one of these new PowerBooks for around \$2,300. This in itself is great news, but what's even better is that the cheapest G3 PowerBook will have the same chassis, motherboard, and base components as the most expensive model.

## **It appeals to a non-Mac crowd.**

Whether you're an Apple person or a Wintel user, it's still cool to walk around with a PowerBook. The industrial design, low price, and high power of the new G3 PowerBooks are going to make it cooler still. Expect to see people who are not otherwise Apple-friendly buying these new 'Books.

It's refreshing to see stunning new products come out of Apple. Gil Amelio said the right words a couple of years back when he promised to simplify the Apple product line, but nothing happened. Things have changed, and Apple currently has two product lines: the PowerBook G3 and the Power Macintosh G3. There are tens of thousands of variations on these themes, but only two lines. This means lower cost and higher quality. The best part of it is that Apple has made the transition to lower-priced industry-standard components without sacrificing style. The flat-panel display and the PowerBook G3 designs are the most

amazing to come out of Apple in years. Don't expect these to be the last, either.

—David Reynolds

**MacAddict bids farewell to Kathy Tafel**

**T**his month marks the final issue for senior editor Kathy Tafel. She's been at *MacAddict* since the beginning, and her days at Imagine Media stretch back to before *MacAddict*'s existence, when she served as Webmaster and CD-ROM editor for *The Net*. Three years at a single workplace is a long time these days, especially in the high-tech arena.

Lest you think Kathy lost faith in the Macintosh, don't worry. Kathy started her new job at Apple Computer in mid-April. She won't be doing deep cover for us, despite what we thought was a generous offer of \$37 and an inflatable flying toaster from Berkeley Systems. Hey, it's all we had at the time, even after pilfering the Diet Coke fund. She does, however, promise to stay in touch and continue working to further the Macintosh cause.

Rumor has it that Kathy was responsible for *MacAddict*'s very name, having had a conversation with Imagine Media's president and CEO Chris Anderson—all in some unnamed San Francisco pub—where she suggested the magazine's moniker. Although the name sounded a little strange at first, it quickly became apparent that it fit the magazine, and our readers—people who love the Mac.

We'll miss Kathy—her creativity, her technical knowledge, her sense of humor, and her Myth prowess. (In case you hadn't heard, she won Bungie's Valentine's Day Massacre.) We also wish her well in her new job. So, good luck, Kathy! Oh, and when you run into Steve on campus, tell him to give us a ring. For some reason, he hasn't been returning our calls. Hmm.

# got HFS+?



You've probably heard about the new HFS+ filing system that Apple released with System 8.1. This long awaited update now allows your current hard drive to hold a lot more data than before. Most of your files will now become smaller too. But what if something goes wrong with your HFS+ formatted drive? You'll need TechTool Pro. TechTool Pro is the only program available that can correctly repair and recover HFS+ drives. Besides the important drive repair and recovery functions we've added to version 2, you'll also get TechTool Pro's large arsenal of diagnostic tests. This means that not only can you find and correct drive and file problems (including HFS+ drives), but you can also test all those other critical parts of your system that our famous competitor ignores like RAM, CPU, floppy drives, scanners, Internet connections, CD-ROM drives



# TechTool Pro®

**Toll Free: 800-829-6227  
International: 707-837-8012  
FAX: 707-837-0209  
[info@micromat.com](mailto:info@micromat.com)  
[www.micromat.com](http://www.micromat.com)**



8868 Lakewood Drive  
Windsor, CA 95492

TechTool is a registered trademark of MicroMat Computer Systems Inc. Macintosh is a registered trademark of Apple Computer Inc.

ch, much more. In fact, no other utility on the market can check the fitness of your Macintosh to the standards of TechTool Pro.

But just because TechTool Pro is the most advanced Macintosh troubleshooting utility available doesn't mean it's difficult to use. In fact we've added an easy-to-use interface that makes checking and fixing your Macintosh a snap. For the advanced user, our expert mode allows you to control and configure TechTool Pro in almost any way you wish.

For more information about TechTool Pro 2, call us at the number below or visit our web site. Once you're equipped with TechTool Pro, you'll see that there will be no need to cry over spilt milk.





# letters

Spring is still in the air with tales of strange love.

## This Month

**WRITE TO US:** MacAddict, 150 North Hill Drive, Suite 40, Brisbane, CA 94005, or email to [letters@macaddict.com](mailto:letters@macaddict.com). **FOR CD PROBLEMS:** Go to <http://support.imagine-inc.com>. **FOR SUBSCRIPTION QUERIES:** Please call (toll-free) 888-771-6222.



**GET ON, GET ACTIVE.** Talk to us and to other Mac addicts at the Web site.

### CONSIDER THE EDITOR FLOGGED

In the Cravings section of your fine magazine (April/98, p24) the blu-Venom Anti-Theft Device is shown lodged into the floppy drive of an IBM ThinkPad (with the ever lovely Windows 95 operating system). What were you thinking? Please send me a brand-new PowerBook G3 for noticing this major error in your magazine.

—ROB "OVERADDICTED" CHARLTON

### TRY DAYLIGHT SAVINGS TIME

I have been at the edge of my seat about upgrading from 7.6.1 to 8.1, even though I can't figure out how to update to the insanely great HFS+ thing. But I have seen one slight, maybe mediocre, well, definitely ludicrous drawback. My first file copy was a 36.5MB folder from an EZ230 cartridge, which scheduled itself for 1,193,047 hours. Now, my first impression was that one million and some-odd hours wasn't reeeeally all that much time, but I worked out the numbers and came up with this:

|                 |           |
|-----------------|-----------|
| Hours.....      | 1,193,047 |
| Days.....       | 49,710    |
| Weeks.....      | 7,101     |
| Fortnights..... | 3,551     |
| Years.....      | 137       |
| Decades.....    | 13.7      |
| Centuries.....  | 1.37      |
| Millennia.....  | .137      |



I actually have a better chance of seeing Halley's comet again than I do of outliving this copy process. Any suggestions?

—BRANDO GATZ

### HE PUT A GUN TO OUR HEADS

I was reading the April *MacAddict* magazine, looking over each page carefully. And there he was in Get Info: Max with a huge tank! How could you have a serial killer as a mascot?—DR. DANIEL TICE

### WHY COPLAND WAS LATE

I ran across something interesting on page 22 of the April issue. Apparently Apple CFO Fred Anderson's calendar has 365 days in each week. Is this a standard Apple calendar? So when Apple says, "The next upgrade will be out in two weeks," is that in our weeks or in Apple weeks? There must be some miscommunication at Apple. A fine magazine such as *MacAddict* would never let a typo like that through (unless, of course, one of the proofreaders was caught up in a Myth game).—TODD C.

### TRY CHEWING WITH YOUR MOUTH CLOSED

I thought you should know that I found a major bug in Apple's monitors—all of them. To test your monitor, you will need some Corn Flakes. Just sit in front of your Mac screen at a distance of 10 feet.

Put some Corn Flakes in your mouth. Eat them, and while you eat, look at the screen. Saw that? It's the same thing with some cookies. I'm trying with the PCs I have here at the office—I'll keep you informed.

—M. MUNIZ NETO

### CHERYL 2, DAVID 0

Cheryl, what have you done? Who cares if you get more money? Now I don't get to admire your cute little face every time my precious 'zine comes! Not to offend the New Guy, but, he's not nearly as nice to look at as you (at least from a guy's standpoint!). Can you possibly—oh, I don't know—"accidentally" mess up so they just have to demote you back down to that lower position? At least that way you get a picture of yourself in the magazine for all to see!—BRICE ROLSTON

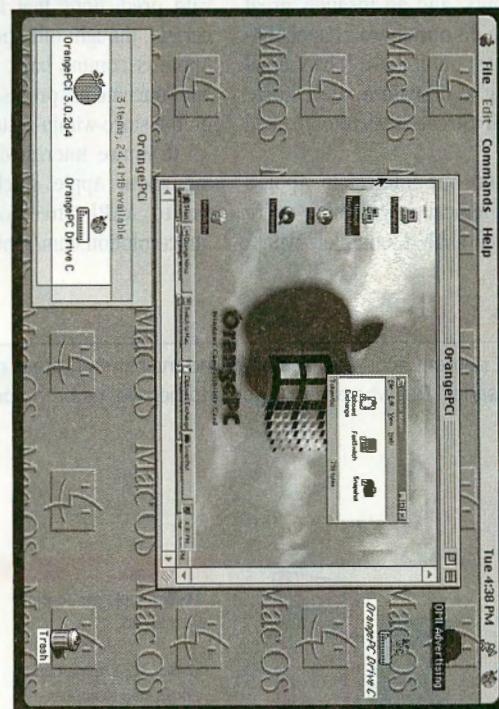
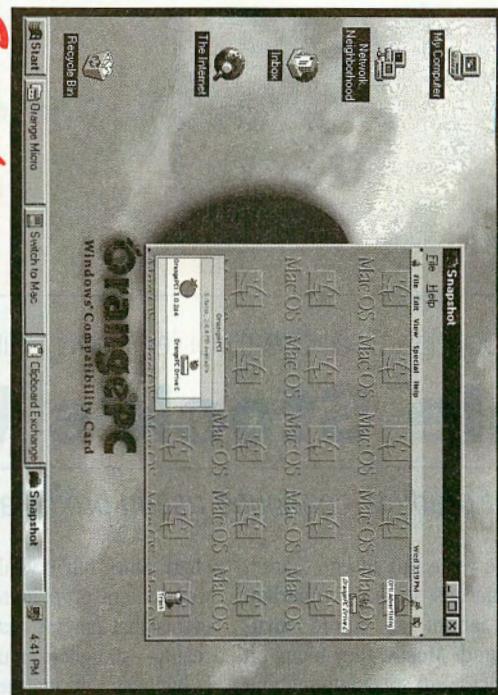
How could you do this to us loyal Mac addicts? Cheryl England's adorable face replaced by a grizzled stub! Say it ain't so, will ya? Did you think we buy *MacAddict* for the magazine? No! It was to see Cheryl! Bring her back!—SHELLY F.

### SPRING IS IN THE AIR

I just watched *Triumph of the Nerds* in my grad class and fell in love with the aura that surrounds Steve Jobs whenever he smiles. His whole face radiates a kind of electric zeal that sucks my breath away. Even on video, you can feel his presence. It was freaky, kind of like sensing God in a church or something.

I have two questions about my new revelation: (1) Is this what it means to be a true Mac addict? (2) Where can I obtain a poster like the full-length one of Steve holding the "baby" Mac?

# Run Windows® On Your Mac! Click, You're a PC! Click Back, You're a Mac!



*Snapshot*<sup>SM</sup>

Just click in the Snapshot window and you instantly switch to the opposite system environment as shown in the screen shots above.

is a premium quality, high performance Windows Compatibility Card for all PCI Macintoshes®. When armed with the AMD-K6™ or Intel® Pentium 233 MMX™, OrangePC can run up to 15.9\* times faster than Virtual PC®.

Mac users frequently need to run PC programs. OrangePC offers dual processing, which allows PC programs to run simultaneously and independently of your Mac.

OrangePC is available in 12" or 7" PCI cards with user-upgradable processors and expandable RAM to 256MB, 512K Pipeline burst L2 cache and 32-bit driver software. The unique Snapshot™ feature displays the Mac environment in a PC window, and inversely, the PC environment in a Mac window. It's like "picture in picture" on your TV! Priced from \$759.

\*Macworld Lab: Macworld Magazine, April 1998, p. 73.

**MacPowerhaus**  
"The Cross-Platform Connection"

info@mph.com (800) 615-3183

Well, actually, I have a few more questions: (3) Do you think this is the real thing, or just infatuation? (4) Uh, is Steve married? I don't want his money; I would just like to sit across from him at a table in real life and have him smile at me for a while.—TERRI "ARFLUV"

I've heard of falling in love on your computer, and I've heard of falling in love with your computer, but falling in love with an animated computer? Well, it happened. I'm in love with Max, the office assistant in Microsoft Office 98. I know, I know, it's from *that guy's* software monopoly, but he's so cute! He's got more life in him than all of my ex-lovers combined (and none of them can do a split à la James Brown or turn themselves into a Rubik's Cube). My friends were worried about a mixed marriage, but from what I hear, some women have learned to love their machines more than they love their mates. But that's a letter for a completely different kind of magazine. You're all invited to the wedding. We're registered at CompUSA.—CECILY WALKER

I was reading my favorite source of information, *MacAddict*, when I first saw your mascot. His bald head and his, well, bald head—I knew it was love at first sight. Max, um, well, if you aren't with anyone right now, I was wondering if you might maybe want to, you know, kinda go on a...you know...date? It is OK if you say no. I am getting used to the rejections. I'll understand. I just wanted to tell you how I really felt about you. I'll love you always!—CARRIE ROLSTON

## THAT CHEATING PIECE OF \$!\*%&

When my *MacAddict* arrived in the mailbox today, I noticed that there were crumbs all over it. Was the postal worker enjoying a Chips Ahoy? However, I found when I opened the sealed plastic that the crumbs were not on the outside, but inside! Magazine and CD were covered with crumbs—is Max dating the Keebler Elf?—MEGAN LYNCH

## IT'S ABOUT TIME

Hi mom! I'm finally in the magazine!

—MATT REAGAN

## YOU KNOW YOU'RE A MAC ADDICT WHEN...

...you code-name your children before they are born.

—CHRIS TWAROG

...your yearbook quote is "Think Different."

—DAN RICCIARDI



get info

# get info

A tearful look back at the turbulent and hair-raising year to come.

## Apple Stock's Wild Ride

*MacAddict predicts continued rise in profits and stock price*

**A**s we write this in late March, numerous stories are surfacing about an Apple turnaround. Mostly, they focus on Apple's stock prices and speculation about a new CEO, profits, and an insanely great new product. We do our share of speculating, trying to figure out if Steve Jobs's facial hair has anything to do with Apple's stock, or whether Wall Street likes the toasted bunny ads.

We've followed our interest in Apple's stock price to its logical conclusion—we're going to play stock analyst, complete with a

chart. Since our crystal ball is in the shop, we had to resort to increasingly hypothetical events that may or may not be related to reality—straight from the events that actually happened during the first quarter to the wild predictions that follow. One thing is certain, though: our speculation shows that Apple is coming back with some stunning announcements, profits, and a surprise turn on the store-within-a-store concept.

If you're interested in serious reporting about Apple stock, don't read this. Go to AAPL Investors at <http://www.macevolution.com/aapl.html> instead.

### Real Stock Tidbits

**A**pple's stock price has nearly doubled in the first three months of 1998, from 13.125 on December 31, 1997, to 26.25 on April 6, 1998. This doesn't seem to be part of a spike, as the increase occurred steadily between mid-February and late March. Investors are reacting well to profits, great new products, and Steve Jobs's perceived leadership. Contrast this with Compaq's performance.

### The course is clear

All our predictions are 100 percent accurate. The so-called mainstream press may try to tell you otherwise; they may even call us "misleading," or "libelous," or "legally insane." But who are you going to believe, us or the people who bring you the news only *after* it happens?

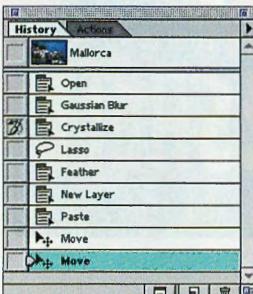


# New Adobe Tools

## Photoshop and Premiere Turn 5

**A**dobe Systems is back on the prowl with new revs of Photoshop and Premiere. The company recently packed a bunch of computer-industry reporters (and what an ugly bunch of surly freaks were we) into a small room on the Adobe campus and showed off the goods.

**Photoshop** There are a couple of finallys in Photoshop 5: *Finally* the program lets you manipulate, edit, add special effects to, and reedit text; *finally* the program lets you undo more than one step. The latter works especially well with a History Palette that allows you to look at every tweak and twirl you forced upon your poor image and go back to any step along the way. Other perks include the ability to add spot color channels, far too many RGB choices, and a crazy new 3D Transform plug that lets you rotate an image's perspective.



**PHOTOSHOP'S** History Palette lets you look at everything you've done to an image and return to any step.

**Premiere** For starters, Premiere 5 makes sense. The whole interface has been revamped. The clutter is gone, the windows and timeline are straightforward, and it's generally a lot more intuitive. Other news for this rev: 3-point editing for automatic spacing of clips to holes, a transition palette for easier drag-and-drop fades and cuts, new (and, in theory, easier) keyboard shortcuts, and—after only five versions—scrolling credits.—RC

Look for Premiere 5 as soon as you're done reading this and Photoshop sometime in June or July.

# Think Now!

**G**et a collection of Think Different posters featuring Mahatma Gandhi, Thomas Edison, Pablo Picasso, Alfred Hitchcock, and Amelia Earhart. A set of 5 costs \$10 plus shipping and handling. To order, visit <http://www.appledesigns.com>.

Or if you can pick out the person who didn't appear in Apple's original Think Different campaign, you could be the lucky winner of a set of posters.

Thomas Edison

Ted Turner

Richard Branson

John Lennon

Kermit the Frog

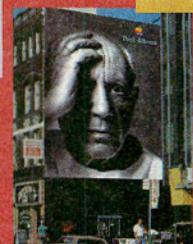
Ada Lovelace

Martha Graham

Maria Callas

Pablo Picasso

Rosa Parks



Send your answer to Think Different, c/o MacAddict, 150 North Hill Dr., Brisbane, CA 94005. Include your name, address, and phone number with your entry, and put the name of the person on your envelope or postcard and circle it. You can also enter on our Web site.

Illustrations by Mike Gorman



**Q3** It's very likely this stuff will happen.

**Q4** Practically for certain this stuff might happen.

# get info

## A9F4 ≠ 43, 508

Well, not in programming lore, anyway. Our February contest asked you to figure out what the heck the symbols on Bob Hanson's license plate mean. We received hundreds of geeky and not so geeky answers. Here are some of the (wrong) guesses—names withheld to protect the innocent.

- A9F4 means 1964. A being the 1st letter of the alphabet & F being the 6th. 1964 is Steve Jobs's birth year?
- In Myth, the 9 Avatar and 4 of the fallen lords.
- The 9 translates to a G, and the 4 translates to an A. Put them together with the other two real letters and you have AGFA, a company that makes scanners and other high-end video/publishing products.
- Read it out loud: A - 9 - F - 4, A - nine - Ef - four, Cay - nine - Hef - fer, Canine-Heifer, DOGCOW!!!!

Now for the correct answer: A9F4 is the \_ExitToShell A-trap on 68K machines. Seeing as how all programmers can't help being smart alecks, since they're so smart anyway, we received tons of sassy replies:

—Why anyone would pick the ExitToShell A-Trap is beyond me. I somewhat prefer 0xA861. Somewhat descriptive



of my life at least.

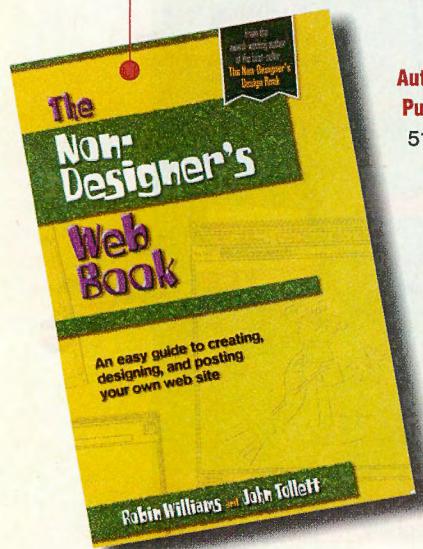
- Running out of gas? Need to pee? Shall we \_ExitToShell?
- Perhaps he is trying to absolve himself of culpability should he be involved in an accident.
- Leonard Rosenthal now uses "You've got a SmartFriend in Pennsylvania" as his signature instead of A9F4.
- It's an advertisement for Shell gasoline stations.
- This must be the car he uses to go to the beach!
- Anybody (and I mean anybody) that could answer this question off the top of their heads certainly doesn't need another copy of CodeWarrior.

We picked Dan Neuman of Orleans, Ontario, out of our digital hat. Believe it or not, Dan didn't have CodeWarrior. So there!—KT

## The Non-Designer's Web Book

**Authors:** Robin Williams and John Tollett  
**Publisher:** Peachpit Press **Contact:** 800-283-9444 or 510-548-4393, <http://www.peachpit.com> **Price:** \$29.95

This absolutely fabulous tome of information will teach you everything you need to know about making a well-designed Web site. If you're a print designer moving to the Web, the book explains how to make your designs work in a different medium, and how to deal with the technical issues of that medium. If you're a techie who can code HTML in your sleep but wouldn't know how to get the leading out if it killed you, *The Non-Designer's Web Book* will show you how to make a functional site a beautiful one. Two thumbs way, way up!—KT



### The MacAddict Index

Number of times Mac OS 8.1 update was downloaded from Apple's Web site in its first four days of availability:

112,000

Percentage of U.S. homes with personal computers at the end of 1997, according to Computer Intelligence: 45

Approximate number of possible Power Mac G3 configurations as of March 17, according to Apple: 20,000

Precise number of possible Power Mac G3 configurations as of March 17, according to MacAddict online editor Mark Simmons: 85,248\*

#### FOCUS ON: US & THEM!

Percentage of Mac business software sold through mail order in the second half of 1997, according to Adobe: 84

Percentage of Windows business software sold through mail order during this period, according to Adobe: 15

Average selling price of an Apple computer in the last calendar quarter of 1997: \$2,400

Average selling price of a Gateway 2000 computer in the last calendar quarter of 1997: \$2,326

Average selling price of a Compaq computer as of January 1998: \$1,330

Apple's gross margin in the last calendar quarter of 1997: 22.4%

Gateway 2000's gross margin in the last calendar quarter of 1997: 18.0%

Compaq's gross margin in the last calendar quarter of 1997: 27.5%

Intel's gross margin in the last calendar quarter of 1997: 59%

\* Thanks to reader Tim Rosencrans for the math check!

Sources may be found at the MacAddict Web site.—MS

Hard Disk ToolKit 2.5

Now Shipping!

OH NOOOOO!

We've upgraded to  
MacOS 8.0! And now  
the boss wants stronger  
security, crisis control, and  
assurance that our data is safe.



But wait...

NOW  
SHIPPING!

Thanks to FWB's new Hard Disk ToolKit 2.5,  
I don't have to worry about poor disk drive  
performance or compatibility issues!

And, I get master password protection,  
bullet-proof encryption, S.M.A.R.T.  
support, a bootable crisis CD-ROM  
and More!!!



I'll call 1-800-581-4392 and upgrade today!



1-800-248-0800

**CYBERIAN** Outpost

[www.outpost.com](http://www.outpost.com)

**MacWAREHOUSE**

1-800-255-6227

**MacConnection**

1-800-800-2222

**FWB**  
software

*\*I in Storage Management.*

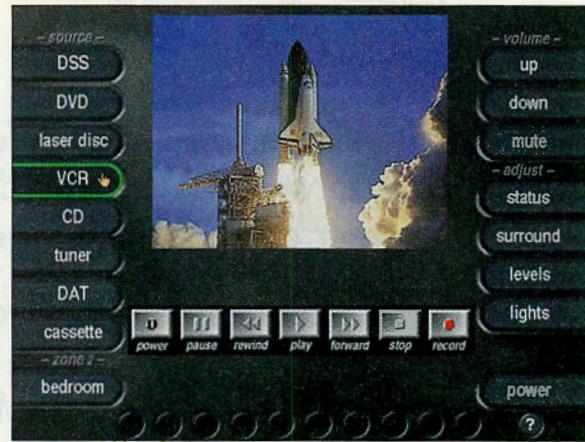


# cravings

The alpha and omega of Mac gadgets, gewgaws, and gizmos

## The Ball

Adcom



## The Myth Soundtrack

Bungie

**I**t all started after that 96-hour Mythathon you played last weekend, and now you've changed. Over and over throughout the day, you can't get the songs out of your head. At night, the haunting melodies keep you awake. Even your dog won't come near you—he's whining and snarling in the corner. It's all due to those songs, those lovely, amazing songs that you heard over and over while playing without sleep. Now you can show

### MUSIC TO SLAUGHTER BY

the world what truly great music is with the soundtrack of *Myth: The Fallen Lords*. For a mere \$9.95, this CD delivers 30 minutes of music by the O'Donnell-Salvatori duo. Just think: 19 tracks of *Myth*, and you don't even have to be at your Mac to enjoy them. To get your copy (and win back your dog's trust), go to the Bungie store at <http://www.bungie.com>, or call 800-296-0600 or 312-563-6200.

**myth**  
THE FALLEN LORDS



SOUNDTRACK

# ScanMaker X6

Microtek Lab

**A**s game shows go, the pitch is wacky: with \$500, bring back the best passel of high-tech equipment—and be creative. You've chosen to do a digital collage, but how do you buy a great scanner and still have money left over for cables, a power strip, and a printer? With the ScanMaker X6, your budget woes

## SCANS THAT WON'T EMPTY YOUR BANK ACCOUNT

are over—and you may have a shot at meeting Pat

Sajak. For a mere \$179 (yes, that's right), the ScanMaker X6 has a letter-size flatbed scanning area, and brings in its images in 36-bit color and at an optical resolution of 600 by 1200 dpi. And, with its software bundle consisting of Kai's PhotoSoap, Caere OmniPage LE, and Microtek's ScanSuite and ScanWizard, you won't have to worry about buying software for the big competition. Besides, the great purple-and-off-white case will look great on TV. To find out more, call Microtek Lab at 800-654-4160 or 310-297-5000, or go to <http://www.microtekusa.com>.



cravings

## Advanced Stick-It Right CD Labeling System

Great Gizmos

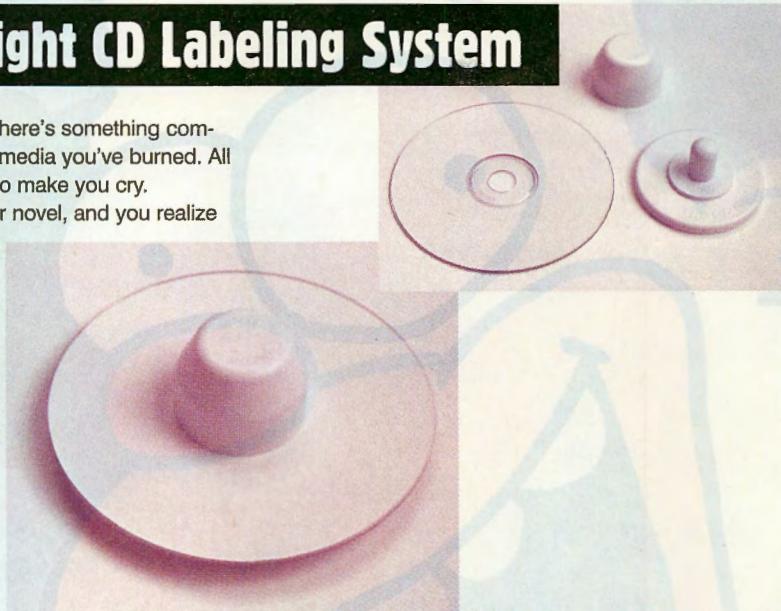
**Y**ou've never labeled your CD-Rs. There's something comforting about all those shiny CD-R media you've burned. All

of that beautiful green and bronze—why, it's enough to make you cry. Especially when you're looking for that backup of your novel, and you realize it's on one of several hundred discs. Suddenly, all those blank, shiny plastic media lose their appeal.

Learn from your mistakes and pick up the Advanced Stick-It Right CD Labeling System. With

## A LABEL FOR EVERYTHING

this \$39.95 device, a printer, and some sticky labels, you can create your own disc labels. The included CD-ROM has label templates for several Mac programs, so label creation is easy. After you find your manuscript, contact Great Gizmos at 888-339-1506 or go to <http://www.greatgizmos.com> and give up your fascination with all things shiny.



## RunWay

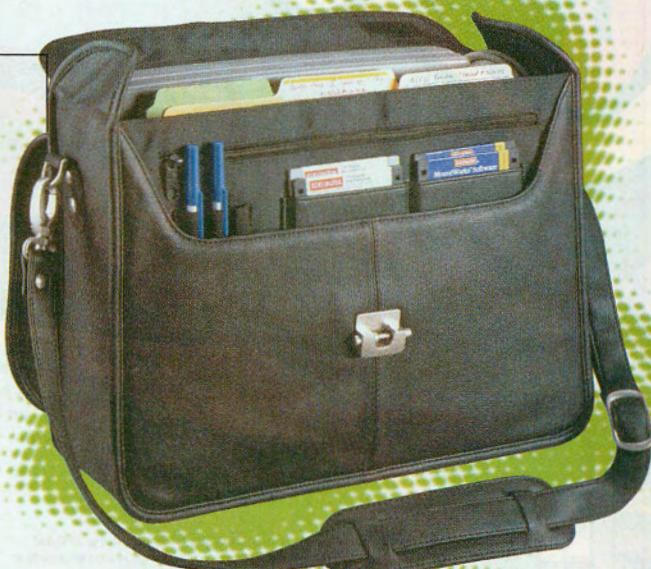
Kensington Technology Group

**J**ust because of that one little incident involving an overstuffed PowerBook case exploding on that 737, the feds won't let you board a plane unless you get a new case. The good folks at Kensington have come to your rescue with the RunWay. For only \$99.95, the leather RunWay can hold your PowerBook and lots of other stuff. It has room for a cell phone, disks, pens, and business

cards on the front, and a place for full-length files, newspapers, and

## AN ELEGANT PORTABLE 'BOOK CASE

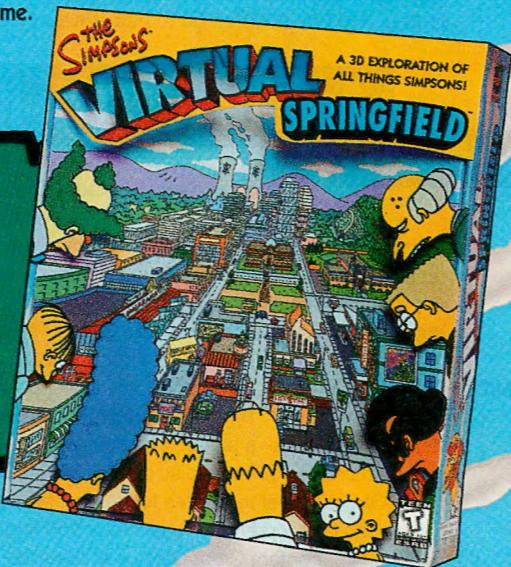
magazines for those long, annoying flights. Combine that with a comfortable shoulder strap and industrial-style rivets, and you have something you'd be proud to show that snotty inspector. To find out more, call 800-535-4242 or 650-572-2700, or go to <http://www.kensington.com>.



# THE SIMPSONS™ VIRTUAL SPRINGFIELD™

## It's Krusty's Kind of Town!

Welcome to Springfield! Enter a navigable 3D world of all things Simpson. Go along with Homer as he stocks up on Duff Beer and Jerky King at the Kwik-E-Mart. Play games at the Noiseland Arcade or watch a flick at the Aztec Theatre. With over 50 locations, an original cast recording and the outrageous humor of The Simpsons, *Virtual Springfield* will make you feel right at home.



**STREETS OF SPRINGFIELD**  
Go for a ride! Here's your chance to wander through the streets of Springfield.

### MOE'S TAVERN

Mix a Flaming Moe, try out the Love Tester or listen as Bart makes prank phone calls to the rattled proprietor of Moe's Tavern.

**AVAILABLE FOR**  
Power Mac CD-ROM Hybrid

[www.foxinteractive.com](http://www.foxinteractive.com)



The Simpsons™ and Virtual Springfield™ & ©1997 Twentieth Century Fox Film Corporation. All Rights Reserved. "Twentieth Century Fox," "Fox" and "The Simpsons" and their associated logos are property of Twentieth Century Fox Film Corporation. All Rights Reserved.

MATT GROENING

# Enter The Interactive World Of THE X FILES™

CASE FILES

30%

EVIDENCE  
ANALYSIS

R. DOSSIERS

115

183

009

DESKTOP DESIGNER

031  
SURVEILLANCE

## UNRESTRICTED ACCESS

IT WILL CHANGE THE WAY YOU LOOK AT THE X-FILES.

You've hacked into a highly classified secret government website giving you unrestricted access to The X-Files.™ Browse through case files, character dossiers, evidence records and other top secret materials. Tap into live video and audio surveillance.

At long last, "Unrestricted Access" has been granted to X-Files™ fans everywhere.

Windows® '95 CD-ROM



THE X-FILES™ and © 1997 Twentieth Century Fox Film Corporation. All Rights Reserved. Twentieth Century Fox, "Fox," and "The X-Files" and their associated logos are the property of Twentieth Century Fox Film Corporation. All Rights Reserved.



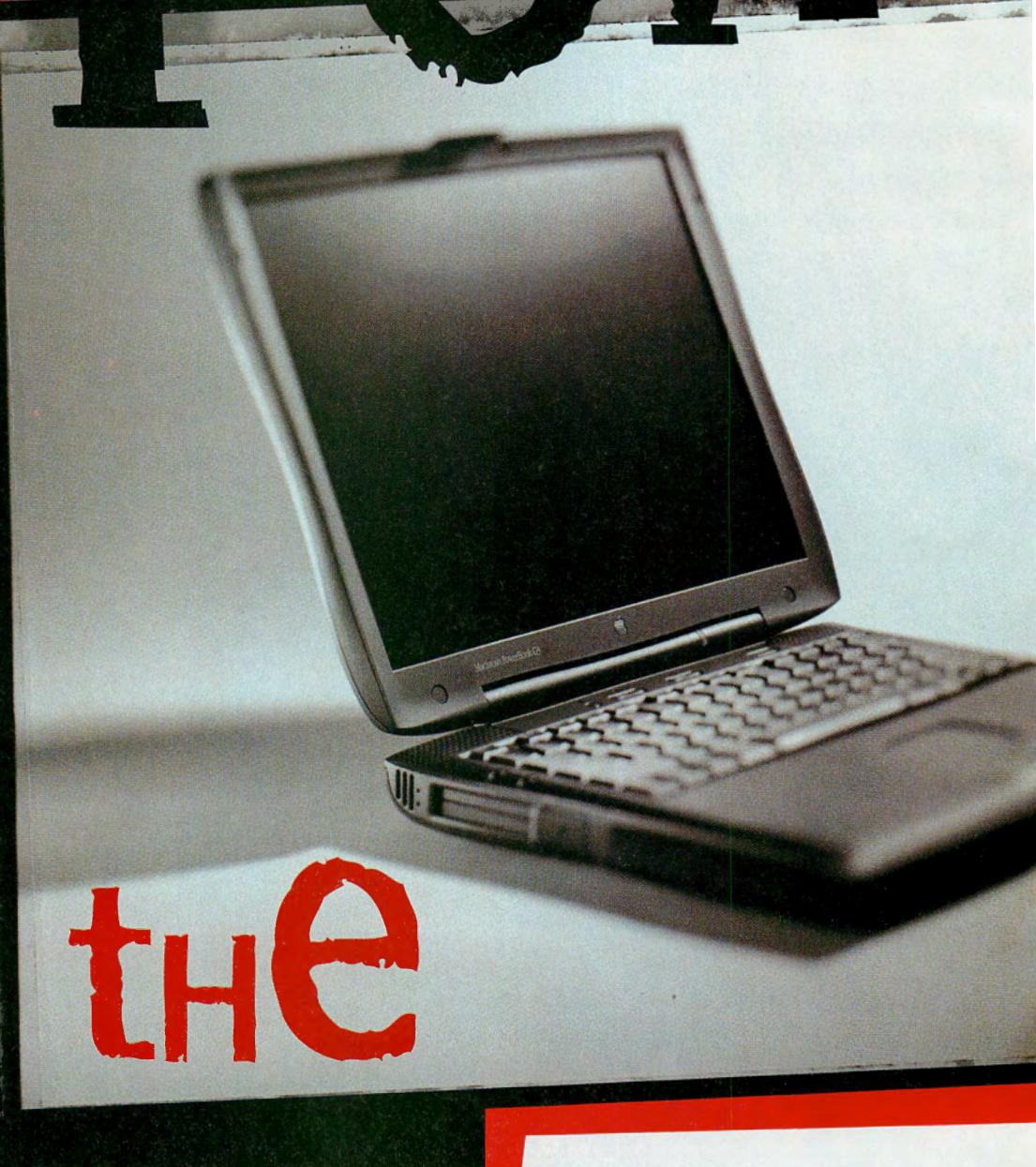
POWER

**S**implicity.  
Focus.  
Viability.

Vitality. Steve Jobs may not be revealing to the outside world his blueprint for Apple's future, but without a doubt he has a plan. Evidence of such a strategy is found in Apple's latest hardware offerings. From the luscious PowerBook G3 displayed here, to the delightful all-in-one on page 27, to the mighty 300MHz joining the desktop line on page 26, Apple has simplified its lineup and refined it to a state of sheer beauty.

It used to be that to

get both elegance and power in Apple hardware, you'd have to spend big bucks: a tribute to design, the 20th Anniversary Mac cost \$7,500; the PowerBook G3 cost \$5,699 when Apple introduced it in November. That's changed. Check out this luxury model due to ship in May. How much do you think you'll have to shell out to bring one of these home? \$5,000? \$4,000? \$3,000? No, lower—you'll be able to snag the ultra-powerful PowerBook G3 for a much more reasonable price of \$2,299.



2

Apple's new PowerBook G3

Apple can offer such awesome prices because it has fundamentally changed the way that it designs and manufactures its hardware. In the January issue (Jan/98, p40), we showed you the Power Macintosh G3's Gossamer motherboard, which is flexible enough to serve in the current lineup of desktop machines, in the new all-in-ones, and as a high-end workstation. With that much volume on a single design, Apple can drop its prices.

Likewise, Apple has revamped the PowerBook's motherboard. As with the desktop machines, the same logic board drives every PowerBook G3, from the low end to the top of the line. Everybody gets the same gorgeous enclosure. And, as with the Power Macintosh G3's, you can design your own configuration, then build it to order via Apple's online store. The more you spend, the more you'll get.

Shown here is the 13-inch display, but the machine is designed to hold both 12- and 14-inch displays as well. With 2MB or 4MB of VRAM, the PowerBook G3 supports millions of colors on an external monitor and on either the 13- or 14-inch built-in screens. That the enclosure is designed to hold all three display sizes shows how well Apple's industrial design team thought out every detail.

Inside, PowerBook owners will finally get the same power as they do in a desktop—and then some. The PowerBook G3's system bus is actually *faster*, at 83MHz, than the Power Macintosh G3's. These high bus speeds and the 1MB backside cache make the 250MHz and 292MHz PowerPC G3 PowerBooks rival the performance of a desktop. Opting for the 233MHz chip reduces price and performance—with the slower chip you get a slower bus speed, at 66MHz, and no backside cache. Nevertheless, over the entire range, the PowerBook G3 beats out comparably priced Pentium notebooks, and should even zoom past Intel's new Deschutes processor.

Standard on all PowerBooks are Ethernet (RJ-45), VGA video out (mirror), and a 20x CD-ROM drive. The two hot-swappable expansion bays can hold any combination of battery, floppy, CD-ROM, or third-party storage product, such as a hard drive or Zip drive.

Apple skimped a little to hit the sub-\$2,500 price point on its minimum configuration, but all you're really missing out on is a floppy drive. The rest of the lineup is more than reasonable. Turn the page to see the exquisite details of the PowerBook G3.



BUY ANY of these  
machines at  
<http://www.apple.com/store/>.

# PEOPLE

by kathy tafel

PHOTOGRAPHY BY AARON LAUER

# aFForDaBLE eLeGance

Apple describes the PowerBook G3 as a "union of fashion and technology" where the form "accentuates" function.

power

Icons depicting the various ports are visible not only from the back, as with past models, but also from the top.

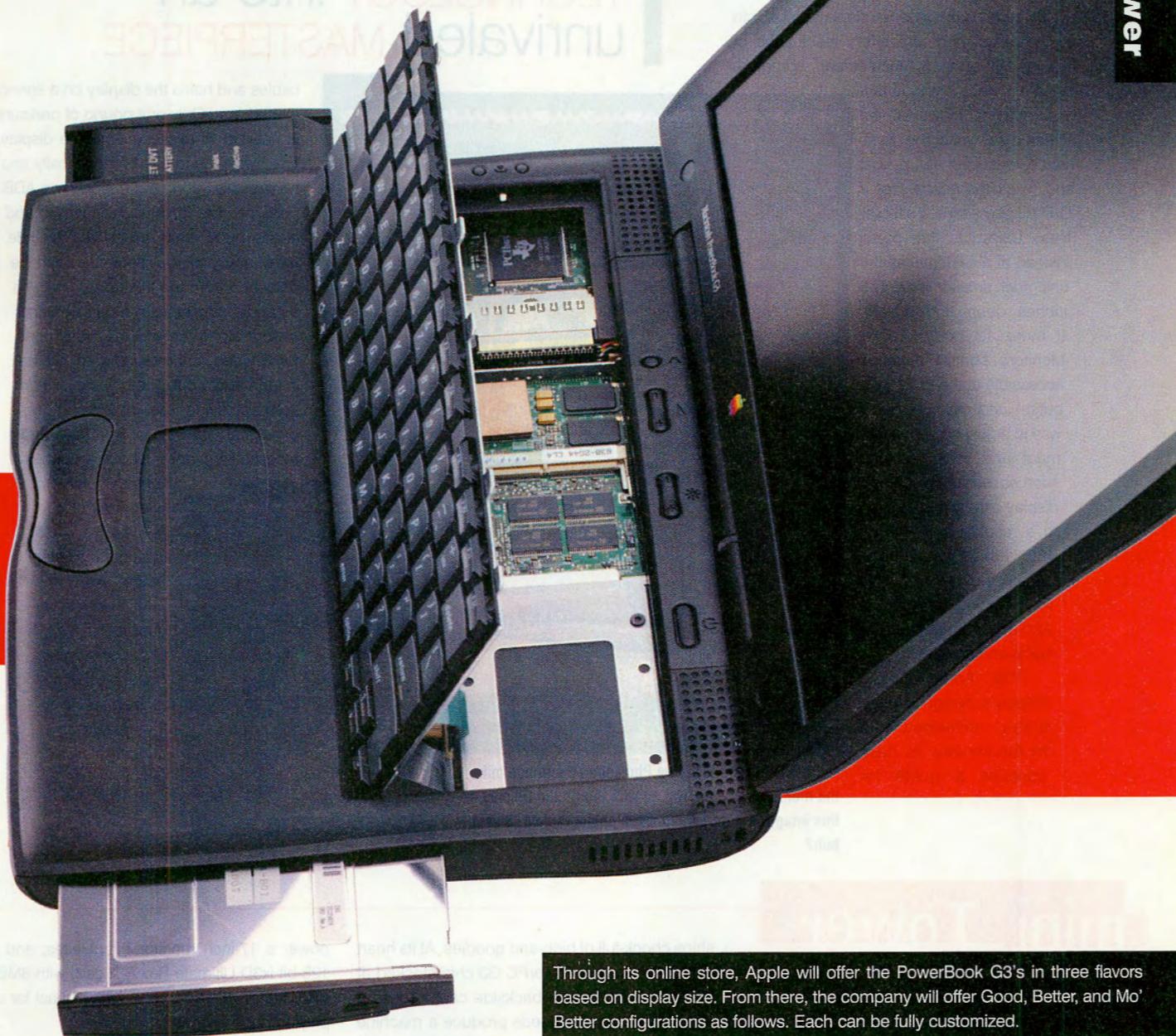


The curvy lines continue along the top and bottom in plastic; the interior is metal sprayed with paint to provide a soft-touch grip. A large crystal Apple focuses attention to the middle.



the entire machine has **CURVY** lines throughout its design, most evident in the flowing OVAL of the side view.

Levers along the front of the machine release storage devices or batteries from expansion bays. Pressing buttons hidden by the bays pops up the keyboard, offering access to the interior. The PowerPC G3 chip, its backside cache, and RAM slots are on one card that plugs into the motherboard. The scissor-technology keyboard's arrow keys are an inverted T. Embedded function keys offer such niceties as a number pad, as well as home and end navigation keys.



Through its online store, Apple will offer the PowerBook G3's in three flavors based on display size. From there, the company will offer Good, Better, and Mo' Better configurations as follows. Each can be fully customized.

### 12.1-inch

### 13.3-inch

### 14.1-inch

#### Good

233MHz/32MB SDRAM/2MB SGRAM/2GB hard drive/\$2,299

233MHz/32MB SDRAM/4MB SGRAM/2GB hard drive/floppy/\$2,999

233MHz/32MB SDRAM/4MB SGRAM/2GB hard drive/floppy/\$3,499

#### Better

233MHz/32MB SDRAM/2MB SGRAM/2MB cache/32MB SDRAM/4MB SGRAM/4GB hard drive/floppy/56K modem/\$2,579

250MHz/1MB level 2 backside cache/32MB SDRAM/4MB SGRAM/4GB hard drive/floppy/56K modem/\$3,899

250MHz/1MB level 2 backside cache/32MB SDRAM/4MB SGRAM/4GB hard drive/floppy/56K modem/\$4,399

#### Mo' Better

250MHz/1MB level 2 backside cache/32MB SDRAM/2MB SGRAM/2GB hard drive/floppy/56K modem/\$2,979

292MHz/1MB level 2 backside cache/64MB SDRAM/4MB SGRAM/4GB hard drive/floppy/56K modem/\$4,599

292MHz/1MB level 2 backside cache/64MB SDRAM/4MB SGRAM/8GB hard drive/floppy/56K modem/\$5,599

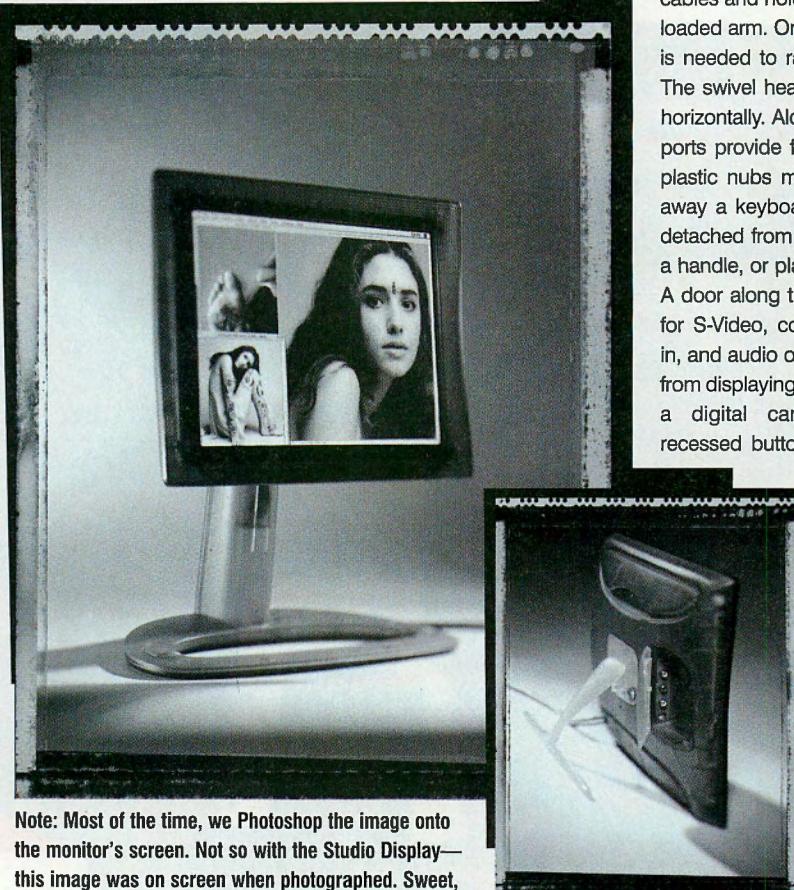
# THE fLaTTEst MoNiToR

power

## APPLE STUDIO DISPLAY

Drool. Every aspect of Apple's newest display seduces us into sheer desire. As with the PowerBook G3, the Apple Studio Display blends design and technology into an unrivaled masterpiece. The flat-panel display plugs into any graphics card and offers resolutions of 1024 by 768 on a 15.1-inch screen, comparable to a 17-inch cathode-ray-tube monitor. However, the screen has twice the luminescence, twice the sharpness, and twice the contrast of a CRT display—plus, it's flicker free. Using a flat panel instead of a CRT makes the unit much smaller: it's only 9 inches deep and weighs a mere 12 pounds. The Monitors control panel is accessible at the touch of a button and offers an easy way to adjust screen placement and other settings such as resolution. Apple's display dithers pixels down to a resolution of 640 by 480. From the cutting-edge use of technology to the stunning design, the Apple Studio Display delights and amazes.

The Apple Studio Display's design is inexorably intertwined with its functionality. Its base contains a guide for



Note: Most of the time, we Photoshop the image onto the monitor's screen. Not so with the Studio Display—this image was on screen when photographed. Sweet, huh?

the apple studio display blends design and TECHNOLOGY into an unrivaled MASTERPIECE.

cables and holds the display on a spring-loaded arm. Only one pound of pressure is needed to raise or lower the display. The swivel head tilts both vertically and horizontally. Along the bottom, two ADB ports provide for multiple devices, and plastic nubs make a nifty rest to hide away a keyboard. The screen can be detached from the base and held with a handle, or placed in a portrait stand. A door along the left side hides ports for S-Video, composite video, stereo in, and audio out. The unit can switch from displaying Mac video to showing a digital camera's images—the recessed buttons along the bottom of the screen provide control over power, video source, and settings. And the entire enclosure just looks cool; it's curvy, elegant, and composed of the same translucent plastic as the eMate.

# mini Tower

## POWER MACINTOSH G3/300MHz

Think simple. Apple has nearly finished phasing out the multitudes of different desktop lines. The introduction of the Power Macintosh G3 (which, by the way, now costs several hundred dollars less) eliminated the 7X00 and 8X00 lines. The all-in-one Macintosh to the right replaces the 5X00. The Power Macintosh G3/300MHz—also built around the Gossamer board—aims to replace the 9X00.

Debuting in April at \$4,899, the Power Macintosh G3/300MHz is a new standard configuration of the G3 line and

ships chock-full of high-end goodies. At its heart is Motorola's new PowerPC G3 chip clocked at 300MHz, with 1MB of backside cache running at 150MHz. Those speeds produce a machine that is 10 percent (floating point) to 20 percent (integer) faster than a 266MHz-based system—and it kicks ass over comparably priced Pentium II boxes.

The G3/300MHz fills almost every slot available in the minitower enclosure with high-performance gear designed to make graphics professionals giddy. A generous 128MB of RAM will get anyone started—and the machine will take a maximum of 384MB. Right out of the box, it is set to support a dual-monitor setup. Use the motherboard's video controller and 6MB of SGRAM to

power a 17-inch monitor for palettes, and the 128-bit ix3D Ultimate Rez PCI card with 8MB of VRAM to drive a 20-inch or larger beast for displaying huge images.

Once you're set to save those images, the G3/300MHz will save time with a 2x4GB striped hard disk array. (The Ultra Wide SCSI controller for this fills the second PCI slot.) Stripping the drives creates a virtual 8GB drive that is faster because the data is saved to and read from both drives at the same time. But if you're working off a file server, the 10/100Baset Fast Ethernet card in the last PCI slot will speed your file transfers, too. A 24x CD-ROM drive (or optional DVD-ROM) and a floppy drive round out the expansion

# ALL things to ALL people

## POWER MACINTOSH G3

### ALL-IN-ONE

Previous educational models didn't offer as much muscle as the desktop line did—to get the lowest possible price, Apple used less-expensive parts. With the flexible Gossamer motherboard at the heart of the hardware line, Apple can offer the power of the third-generation PowerPC to a greater audience, because cost savings

are built into the entire manufacturing model. The all-in-one has the primo power of a Gossamer motherboard, a PowerPC G3 chip at 233MHz or 266MHz, 512K 2:1 backside cache, a 66MHz system bus, and 32MB of SDRAM.

With the core hardware already designed, Apple focused on the exterior. The first PowerPC all-in-one looked like a monitor with a CD-ROM drive stuck to the bottom. This new organic design houses a 15-inch monitor, but the overall feel is more fun and more functional. Intended for the education market, the machine has two headphone jacks on the front so kids can share it.

### PMG3AIO SELECTIONS

- 233MHz/2GB hard drive/24x CD-ROM/\$1,499
- 233MHz/2GB hard drive/24x CD-ROM/AV card/\$1,699
- 266MHz/4GB hard drive/24x CD-ROM/AV card/Zip drive/\$1,999

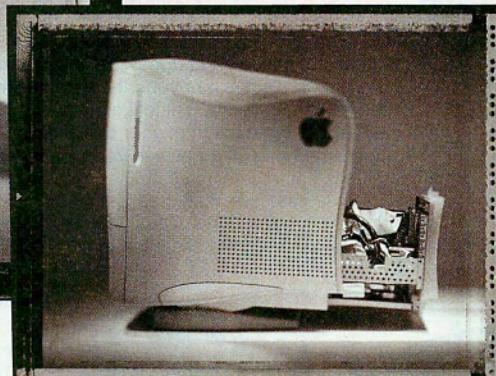
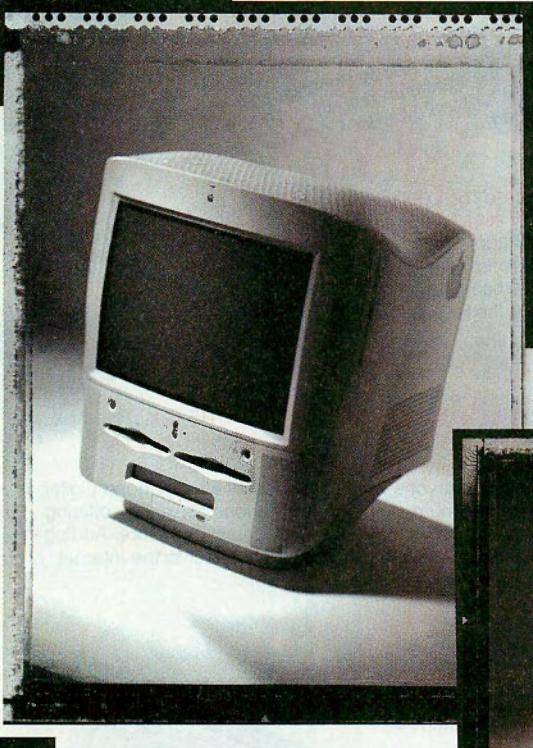
bays, leaving just one internal 5.25-inch bay open.

And therein lies the rub. The Power Macintosh G3/300MHz is indeed a high-end workstation that will do its job and do it better than any previous model has. However, the design pushes the limits of Gossamer's flexibility. If you want to add any other PCI card—Apple's new Firewire digital-video-editing kit, for instance—you'll have to buy a PCI breakout box and take out one of the preinstalled cards to make room for the breakout box's PCI interface card. You can then put the card you removed in the breakout box.

That's not such a big deal—since a

workaround does exist. But if you're one of the customers who needs more than 384MB, Apple really doesn't have an answer for you, except to purchase the 256MB RAM SO-DIMMs, which will be available shortly. That will raise the maximum to 768MB, but each 256MB SO-DIMM will cost twice as much as what you pay for four 64MB DIMMs. This is our only real criticism of the new offering, and fortunately this limitation doesn't affect the large majority of Apple's customer base. The cost savings Apple gains by using the same motherboard in the entire desktop line will help keep the company profitable.

With this new **ORGANIC** design, houses a 15-inch monitor, but the overall feel is more fun and more **FUNCTIONAL**.



In back, a clever drawer eases access to the memory and PCI slots (the PCI slots can hold 7-inch cards, but not full-size ones), as well as drive bays.

As with all new Apple hardware, the all-in-one is available through Apple's online store. However, that part of the store is available only to Apple's direct education market. As an individual, you won't be able to buy the all-in-one. The three preset choices offer baselines from which to customize via Apple's build-to-order factory. Options include 4GB or 6GB hard drives, 64MB or 96MB of SDRAM, 100BaseT Fast Ethernet, and a 100MB SCSI Zip drive. The all-in-one is enough to

make you wish you were a kid again. ↗

Kathy Tafel almost regrets buying herself that Power Macintosh G3 desktop for Christmas. Almost.

### Desktop Options

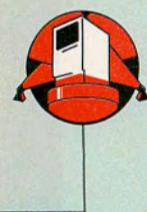
Apple is streamlining its desktop line around one internal design flexible enough for the company to offer thousands of different configurations through its build-to-order factory. The company introduced three options in January:

- 4GB or 9GB Ultra Wide SCSI drive with PCI controller
- 10/100BaseT Ethernet PCI card
- ix3D Ultimate Rez graphics accelerator with 8MB of VRAM

#### IN MARCH, APPLE INCLUDED THREE ADDITIONAL OFFERINGS:

- 300MHz G3 chip with 1MB of backside cache
- DVD-ROM
- 2x4GB Ultra Wide SCSI striped array with PCI controller

And Apple planned an April release for its Firewire digital-video-editing kit (includes PCI card, cable, Premiere plug-ins). These new products give the Power Macintosh G3 the flexibility to fulfill the needs of a greater number of customers—expect to see more as the year progresses.

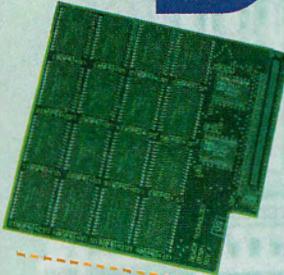


booking

# 'Booking' **not** Trip

Whether you're **OUTWARD BOUND** or **BUSINESS TRIPPING**, here's what you'll need for your PowerBook to **TRAVEL RIGHT**.

by Jason D. O'Grady  
Illustration by Gordon Studer



**NEWER TECHNOLOGY POWERBOOK RAM UPGRADE** • Newer Technology • 24MB for PowerBook 1400: \$129.95 (street) • 128MB for PowerBook 3400/G3: \$729.95 (street) • 800-678-3726, <http://www.newertech.com>  
Upgrade to at least 64MB of RAM to make Microsoft applications move. If you use graphics-intensive programs like Adobe Photoshop or anything from MetaCreations, upgrade to the maximum amount of RAM that your PowerBook will support—160MB for the PowerBook G3. Hey, don't cry over the high prices, expense them.



**POWERPORT PLATINUM PRO 56K/10BT** • Global Village Communication • \$359 (street) • 800-736-4821, <http://www.globalvillage.com>  
A combination 10BaseT Ethernet/modem PC Card keeps you connected in the office and on the road. Global Village's PowerPort Platinum Pro PC Card screams with a 56-Kbps modem, reliable Ethernet, and the best fax application on the market.



**OCP-820 CDMA DIGITAL/ANALOG CELLULAR PHONE • DATA ON THE GO**  
**FAX/MODEM PC CARD** • Qualcomm • Phone: \$169 (street) (requires activation) • PC Card: \$299 (street) • 800-238-3672, <http://www.qualcomm.com/cdma/phones/>

Ditch your cellular and dump the pager; everyone who's anyone has already gone digital. Digital phones blaze beyond the bare minimum of standard telephone service by offering call waiting, caller ID, call forwarding, text pages, email, news updates, and more. Adding a PC Card connection to your digital dialer ensures that you can connect to the Internet from anywhere—try that with your analog cellular telephone.



**VST EXPANSION BAY ZIP DRIVE** • VST Technologies • \$299 (street) • 508-263-9700, <http://www.vsttech.com>

Mass storage is a must for making backups and showing off power presentations loaded with large graphics, animations, and video clips. If you have a PowerBook 1400, 3400, or G3, you'll want to check out the VST expansion bay Zip drive, which allows you to archive up to 100MB of data per cartridge (even more with compression). The Zip also ships with a bootable Mac OS 8 cartridge, which can bail you out if you hose your hard drive on your next business trip.



**iREZ KRITTER CAMERA** • iREZ Research Corporation • \$249.95 (street) • 612-933-2086, <http://www.irez.com>

The iREZ Kritter Camera is a PC Card-camera combination that captures video and still images on zoom-video-equipped PowerBooks (2400, 3400, and G3). The alienesque golf ball-size orb takes digital video data from the camera's charge-coupled device and directs it into the screen's video buffer at rates up to 27 Mbps, bypassing the PowerBook's system bus. This allows the PowerBook processor to spend 100 percent of its time processing your videoconferencing software, resulting in a full 30-frames-per-second preview. Major eye candy.



**THE POWERBOOK G3, 3400, OR 1400**  
THREE WORDS: MODERN, FAST, UPGRADABLE.

## THE POWER SUIT

## LITHIUM ION 47-WATT-HOUR BATTERY FOR THE POWERBOOK G3 • Apple part number M4895 • Apple Computer • \$299 (street) • 800-795-1000, <http://store.apple.com>

Lithium ion (Lilon) batteries are half the weight, with twice the run-time, of nickel-metal-hydride (NiMH) batteries. Another plus is that Lilon batteries don't suffer from the memory problem of NiMH batteries (if you're in the habit of recharging before it's totally out of juice, that reduces the run-time of your battery). The PowerBook 2400, 3400, and G3 support Lilon batteries, but you should buy at least one extra stock Apple battery to keep yourself out of trouble.



**LAPPAK BACKPACK** • Respect • \$88 (street) • 888-527-7251, <http://www.respectus.com/c-lappak.html>  
Preserve your PowerBook with a protective case before unleashing it into the wild. The most popular PowerBook cases include wet suits, backpacks, traditional shoulder bags, and wheeled carts. If you're heading out on a hike, the LapPak is a great choice because it's easy to carry and you can flip it open to work without taking your PowerBook out of the bag. The interior is roomy enough to accommodate the extra batteries you'll need to keep your PowerBook functioning when you're miles away from electricity.



booking

## DELORME TRIPMATE GPS NAVIGATOR • DeLorme • \$159.99 (street), includes Street Atlas software bundle • 800-452-5931, <http://www.delorme.com>

Don't get lost, get the DeLorme Tripmate. Attach the yellow pod to your PowerBook's serial port and track your travels on the Street Atlas USA 4.0 interactive map software. The Tripmate synchronizes your location with the map (as long as

you're not going to Area 51) by tracking 24 low-orbit, government-owned satellites. Unfortunately, tracking down classified American military bases is still a job for enemy intelligence.



### TRIP OUT WITH YOUR TRIPMATE

1. Plug the GPS receiver into your serial port.
2. Stick the GPS receiver on your dash.
3. Launch the Street Atlas USA 4.0 application.
4. Enter your current location.
5. Voilà! Instant mapping that will follow you anywhere.

## AUTOMOBILE/AIRLINE DC POWER ADAPTER • Lind Electronics • \$119.95 (street) • 800-697-3702, <http://www.lindelectronics.com>

Frequent flyers and road trip junkies need an adapter that hooks them up to power outlets in the sky and on the road. The Lind DC power adapter does both. It can juice up your PowerBook via your car's cigarette lighter or through the in-seat power outlets found on more modern aircraft, virtually eliminating the need to take numerous heavy batteries along on your next international flight—handy for smugglers with an insatiable craving for storage. Be sure to check with your airline before you depart to see if the aircraft supports the new power adapters.



**NOTEBOOK MICROSAYER SECURITY SYSTEM** • Kensington Microware • \$49.99 (street) • 800-535-4242, <http://www.kensington.com>  
The Kensington Security Slot, which is found on all shipping PowerBooks (except the 2400) and works with the MicroSaver Security System, is easily the best PowerBook protection you can buy for under \$100. The lock and cable simply attach at one end to something that's too large and hard to steal—a desk, for instance—while the other end locks to your PowerBook via the small Security Slot. Until the day The Club ships cross-platform (auto and Mac), this is probably your safest bet.



**THE POWERBOOK 2400, DUOS, 1400, OR G3**  
THE 2400 AND DUOS ARE LIGHT, THE 1400'S BOOKCOVER IS HANDY, AND THE NEW G3 IS IRRESISTIBLE.

# THE ROAD WARRIOR

JASON D. O'GRADY is the publisher of O'Grady's PowerPage (<http://ogrady.com>), a daily Web publication with a biting view of the mobile technology landscape. The PowerPage has had over 4 million visitors since it launched in December 1995.



loomis

Internet Got You Down?  
Email Got You Puzzled?  
Don't Shut Down!

Here at *MacAddict*, it's a daily ritual to gather around the warm glow of the Pivot monitor in the late afternoon and catch up with our favorite busybodies, Ann Landers (<http://www.creators.com/lifestyle/landers/lan.asp>) and Dear Abby (<http://www.ueexpress.com/ups/abby/>). Wade lights his pipe, Nikki pulls out her knitting, Rob serves scones and tea, and we all smile and nod knowingly as Mark reads aloud the silly letters and the wise replies.

As longtime readers of Abby and Ann, we've been trying for several years now to track down persistent

# Ask Dear Loomis!

by Joseph O. Holmes

Illustrations by Jack Gallagher



FOR HANDS-  
ON help,  
head to The  
Disc and  
load up on  
shareware.

rumors that the two aren't actually twins, as they've always asserted. Finally, last month, we received an anonymous phone call from an old friend, who casually mentioned that he grew up with Pauline and Eppie Friedman—Abby and Ann's real names—in Sioux City, Iowa, back in the thirties. We asked him about the rumors. "It's true," he confirmed. "They aren't twins at all—they're triplets!"

Yes, the famous sisters have a brother named Loomis, born just 16 minutes after the girls, and as luck would have it, the boy—actually an old man now—shares his sisters' world-famous knack for telling oth-

ers what to do. But whereas Ann and Abby dispense sage advice on marital woes, telephone etiquette, and which way to mount the toilet-paper roll (over the top!), it turns out Loomis comes equipped to share his expertise on email woes, Internet faxing, and which way to mount that PlainTalk microphone (toward your face!).

We contacted Loomis by Internet telephone at his current home, in a magnificent stateroom on James Cameron's abandoned floating *Titanic* set (you probably wouldn't have guessed they had T1 access in there!). As a tribute to the family tradition he agreed to answer some questions from troubled *MacAddict* readers.

Loomis

# Breaking Up over the Phone...Bill

## Dear Loomis,

I live on a houseboat off the coast of Antarctica, but my friends and family all live in Cleveland. My phone bills are outrageous. If this keeps up I may have to trade in my houseboat for a dinghy. What's up with Internet phones? Do they work? Will I save money?

*Losing It Long Distance*

## Dear Losing It,

Like push technology, videoconferencing, and David Caruso, Internet telephone failed to live up to its enormous hype. A couple of years ago it was the Next Really Cool Thing. Today it's faded to near-obscurity.

In theory, it's wonderful. Make your usual PPP Internet connection—a local call—fire up Internet telephone software, and talk with a friend as far away as the other side of the world. That's *in theory*. Before you tell AT&T to take the proverbial hike, you might want to check out the reality of using the Internet as your long-distance provider.

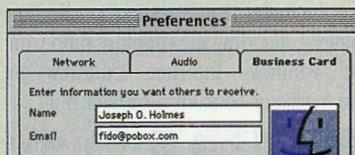
The hard truth is that you get what you pay for in sound quality. On the best days, a 28.8-Kbps Internet phone connection is almost as good as a poor cell-phone connection. On a bad day, your conversation will consist of, "What? Are you there? Hello? Hello?" You should also be aware that open standards for the Internet are still evolving, so you and the person you're calling may have to use exactly the same brand of software. And, finally, timing is everything. Unless you sit by your Mac all day with an open Internet connection, you'll have to make arrangements ahead of time to place the call.

But if ten cents a minute is just ten cents too much to pay for long distance, here are three of the best ways to reach out and virtually touch someone. Smart shoppers will download a demo of each and try before buying. Here's how to get started.

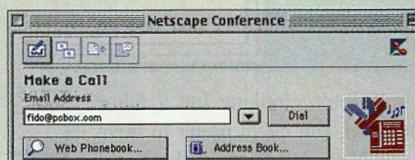
## Netscape Conference

Price-cutting patriots who believe that free is the only way to be will dig Netscape Conference (<http://www.netscape.com>), which comes bundled with Netscape Communicator 4 or later. Conference is not only free, it also has a large installed base and will handle cross-platform calls. Unfortunately, it's limited to one-to-one calls and requires an enormous 10MB download.

**Step 1.** Before you make your first call, fill in all the information in the Business Card, in Conference's Preferences dialog. Then check the box List My Name In Phonebook in the Network Preferences and verify that the friends you want to call also have listed their names.



**Step 2.** Prearrange a call date so you're both online with Conference launched at the same time. When the time comes, plug your friend's email address into Conference's text box and click Dial.



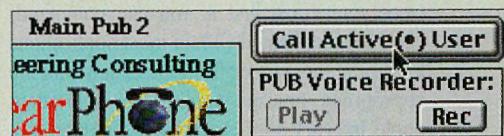
## Engineering Consulting's ClearPhone

ClearPhone (<http://www.clearphone.com>) will cost you \$80 (\$70 for additional copies), but it takes advantage of QuickTime 3.0 to produce a much crisper sound. It's also Mac-only, which means you won't be able to call your PC-using cousins. Not that you'd really want to.

**Step 1.** Again, prearrange a time to talk and agree on a registered user's Pub (public conference room); they're numbered 2 through 5. When you're ready to make your call, click the Pub button on the ClearPhone Controls palette and select the agreed-upon Pub.



**Step 2.** Select your friend's name in the list of users and click the Call Active User button. You'll hear a pseudo-ringing sound; then, if all goes well, your friend's voice will boom over your Mac's speaker.



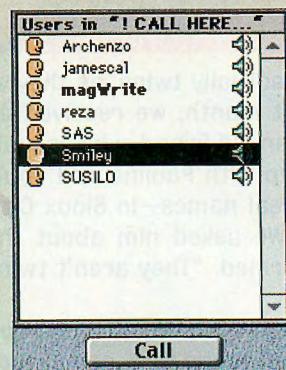
## VocalTec's Internet Phone

Internet Phone (<http://www.vocaltec.com/mac/web/mac.htm>) costs \$50 for the first two licenses, a good deal if you want a copy for you and a friend, and if you're willing to put up with sound quality that isn't quite as good as ClearPhone's. But Internet Phone is cross-platform...in more ways than one. Not only does Internet Phone allow you to call someone with a PC from your Mac, but version 3.5 also supports computer-to-telephone connections.

**Step 1.** Arrange a time to talk with your friend and agree on a name for a private Chat Room. Click Internet Phone's Private button and type in the Chat Room name that you agreed on.



**Step 2.** Select your friend's name in the Users list and click the Call button. You'll hear the pseudo-ringing tone; when your friend answers, a cute little animated cartoon figure will appear in the Iphone window to illustrate the connection. Say hi!



## Internet Telephone Tips

- Turn off AppleTalk, virtual memory, and anything in the background, especially other Internet tasks like downloading files.
- Call early in the morning or late at night to avoid Internet congestion.
- Turn off external speakers and wear headphones.
- Keep your expectations low—the typical three-to-five-second delay makes Internet telephone sound more like CB radio.

# An URL in Every Port

Dear Loomis,

Every day I come across URLs for Web sites and newsgroups that I want to check out. Pretty soon, though, my sticky notes are blowing around the room like autumn leaves. My lover is a neat freak and can't stand the mess. He's threatened to break up with me unless I get my URLs together. What can I do? Please advise.

URL Crazy

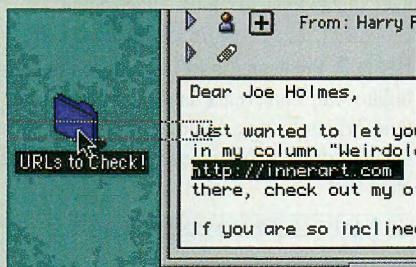
Dear URL Crazy,

Don't get mad, get organized! It's normal to want to experience a lot of URLs, but you shouldn't let your Internet addiction break up a healthy, happy real-life relationship—many of us only dream of finding love outside the chat rooms. So before your lover leaves you, get a grip with the following tips.

A good habit to get into is launching a URL when you come across it. Start with IcEtEe, a free extension bundled with Internet Config (<http://ftp.share.com/internet-configuration/>). Once you've installed it, you can command-click any highlighted URL in most applications to retrieve the page or file immediately with the appropriate Internet application. Alternately, Apple Internet Address Detectors (which you

can find on The Disc) perform the same trick plus many more by adding some URL tasks to Mac OS 8's contextual menus, though they're not quite as fast as IcEtEe. Finally, you can always drag an FTP or URL onto your browser window for immediate gratification.

If you can't drop everything to visit a site right then and there, collect the URL as text for later viewing. One way is to set up a folder on your desktop and drag URLs from the application onto the folder icon, creating a collection of clippings. Later, drag the clippings onto your browser window—Internet Explorer or Netscape Navigator versions 4 or later only.



If you plan on keeping the URLs forever, or at least for a really long time, you can add the pages to your browser's bookmarks for quick reference later. When you're viewing a page you want to bookmark, press command-D or double-click on Netscape's Bookmark icon (in Internet Explorer, click on the Add button, which is displayed when you choose Compatible Plus as the toolbar style in Preferences). If you come across a URL as you're browsing, you can also save it as a bookmark by clicking on the hyperlink, holding down the mouse, and selecting Add to Bookmarks from the pop-up menu.



If you're looking for a tidier solution, you might prefer to leave your Note Pad open in the background and drag URLs into it. Better yet, use LinkPad (<http://www.panic.com/linkpad/>), a fancier freeware alternative to Note Pad. Drag and drop URLs onto the open LinkPad window, which keeps track of which URLs you've launched and prevents you from dropping a URL right into the middle of another URL.



# Have Email, Will Travel

loomis

Dear Loomis,

My parents are dragging me across the country next month for our annual pilgrimage to the Delta, Ohio, Chicken Festival. They claim it's the best chicken in the nation. Personally, I prefer the Colonel's extra crispy recipe, but no one ever listens to me! Anyway, can you tell me how I can check my email and my favorite Web sites while I'm on the road?

## Tripping Out

Dear Tripping Out,

You don't have to be the victim of your parent's foul play. Just because you're cooped up in the Midwest doesn't mean you can't connect to the Internet. A short-term solution to your travel dilemma is to ask your local provider for an 800 number for national access. If it has one, it'll probably cost \$4 to \$6 an hour, roughly 7 to 10 cents per minute. Or you could just suck it up and make the long-distance call to your regular home provider from the road. A few minutes a day for a long weekend will cost only a couple of dollars.

If you travel often, you might consider switching to a national provider with local connections across the country. For starters, look up Mecklermedia's massive list of Internet service providers (<http://thelist.internet.com>) and the sublist of toll-free providers (<http://thelist.internet.com/areacode/800.html>). CompuServe and America Online also have local dial-up numbers all over the country. America Online lets you check your AOL mail, but CompuServe's connection is a regular PPP connection, so you can check the mail on your own Internet service provider. Connect to CompuServe, but use your ISP's email POP and SMTP settings in your email client.

## PowerBook Less

If you find yourself up a creek without your PowerBook, there are other ways to get online. Pick up a copy of *Cybercafes: A Worldwide Guide for Travelers*, by Cyberkath (\$10, Publishers Group West) for a directory of cafes with Internet access. You can expect to pay \$10 per hour and there's no guarantee you'll find Macs on the menu, but desperate times call for desper-

ate measures. You should also check out the local library—a good solution in towns like Delta, Ohio, that are too small to have a cybercafe.

If you don't feel like hunting down an Internet cafe to check your email, you can call a service that will read your messages over the phone. Check out the CompuServe Communications Card (<http://www.compuserve.com>), which costs 25 cents a minute, or Premiere Worldlink's Platinum Service, 800-609-2030, (<http://www.premtek.com>), which is \$19.95 a month.

## Travel Tips

■ Before leaving on your trip, get your destination's local connection number and make a quick long-distance modem connection. It's worth a couple of quarters to work out the problems ahead of time.

■ Ask about your hotel's phone charges. Many hotels charge a dollar or more for "toll-free" 800-number calls. Explain your circumstances to the hotel management and ask them to waive the fees during your stay.

■ Set your PowerBook's email client preferences so that it doesn't delete messages on your server. (There's literally a box to check.) When you're home at your desktop Mac, collect your email again and archive it with the rest of your mail.

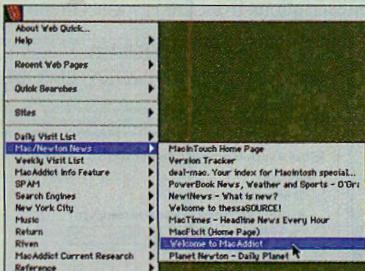
■ At the airport, don't worry about the X-ray machine. The danger there isn't from X rays, it's from a thief who may filch your computer bag at the far side of the machine while you're emptying your pockets. To protect yourself from airport con artists (and we don't mean the food vendors), pack your portable in a nondescript bag that doesn't look like obvious laptop luggage and be wary of any confusion at the safety checkpoint.

If you've got a stopover in an airport, check along the floor for the power outlets the cleaning crew uses. A nearby seat will let you play Myth and recharge your batteries at the same time.

■ Before you leave home, tape your business card—or a white card with your name, address, and phone number—onto your PowerBook's AC adapter. You'd be surprised at the number of adapters you can find in a hotel's lost and found. Speaking of which, when you do discover you've left your adapter behind, head for the lost and found to borrow one.

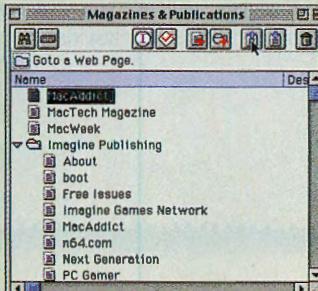
## Bookmark Managers

Of course, for a small fee, third-party bookmark managers make it easy to do all that and more. A good bookmark manager does things no browser can match.



WebQuick's (\$40, Europa Software, <http://www.europasoftware.com>) universal menu lets you add new bookmarks, organize them into custom submenus, and search through recently visited sites. This handy extension-based utility even pops up a list of favorite sites right under your mouse pointer while you're browsing.

DragNet (\$40, TikiSoft, <http://www.tikisoft.com/dragnet.html>), which is shown below, and URL Manager Pro (\$25 Alco Blom, <http://ftp.urlmanager.com>) add extras like verification of URLs and duplicate deletion. Each is a stand-alone application with lots of sorting and searching power features.



# Rumor Consumer Hard Up for Soft News

Dear Loomis,

Yesterday I heard from a friend that the entire cast of *Baywatch* had upgraded to Newton MessagePads and that Tim Allen is on the shortlist for Apple CEO. Can any of these things be true? But more important, how can I get a daily dose of this kind of insanely baseless rumor?

Out of Touch in Omaha

Dear Out of Touch,

The Web is pretty much the world's greatest news and rumor machine, with reports ranging from the stolidly factual to the wildly fictional. Yeah, we know which end of that spectrum interests *you*: Check out the following Web sites for all the Mac gossip that's fit (and sometimes unfit) to print.

■ Mac OS Rumors (<http://www.macosrumors.com>) covers all the Apple hearsay, no matter how far-fetched. It's been the site to see ever since Steve Jobs plugged the news leaks at Apple and effectively dried up almost every other gossip sheet in print and on the Web. Now even Apple employees check Mac OS Rumors for sneak peeks at events to come.

■ ThessaSource (<http://www.thessasource.com>) offers rumor-mongering with a hint of analysis. It can be useful when you're trying to make sense of Apple's fluttering stock prices.

■ Macintouch (<http://www.macintouch.com>) is the rumor mill headed up by *MacWeek* columnist Ric Ford. Ford comes closest to supplying rumors that are on the verge of becoming real news, backing up his gossip with actual fact-checking and skepticism. Steve Jobs even emailed him once. Ooooh.

■ MacSurfer's Headline News (<http://www.macsurfer.com>) links you daily to almost every Mac-related news article in existence that day. Don't be disappointed if you find real news stories instead of mere

rumors. The true-life tales can be even more entertaining.

■ O'Grady's PowerPage (<http://ogrady.com/default.stm>) dishes the dirt on PowerBooks both here and abroad. Not only is it the only site that covers the international PowerBook scene, but it's the only good source for unauthorized information on upcoming models.

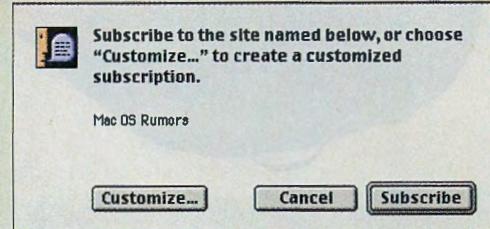
■ The Macintosh News Network (<http://www.macnn.com>) mixes church and state by serving up a healthy amount of both news and gossip. If you're looking for an all-in-one solution, this is it.

(By the way, you had it backward. Tim Allen uses a MessagePad. Apple announced the appointment of the cast of *Baywatch* to the position of Apple CEO.)

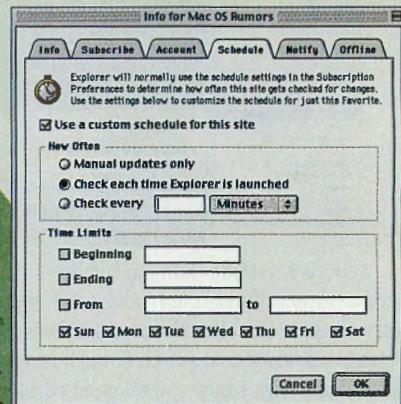
## Subscribing to Gossip

If you like your gossip fresh and first, use Internet Explorer 4.0 to subscribe to a Web site, and Explorer will notify you automatically whenever a subscribed site has changed. Perfect for rumor monitoring; here's how to use it:

**Step 1.** Visit your favorite rumor site and select *Subscribe* from Explorer's Favorites menu. Click the *Customize* button in the *Subscribe* dialog box.



**Step 2.** Set your notification preferences in the *Schedule* dialog box—you can set it to notify you of new rumors within minutes of their posting. If you can't wait that long, manually check for new rumors by selecting *Update Subscriptions* from the Favorites menu.



## The Netscape Alternative

For a quick manual check using Netscape Navigator, press command-B and select the rumor sites you've bookmarked. Then select *What's New* from the *View* menu, click the *Selected Bookmarks* radio button, and click *Start Checking*. Navigator will tell you which sites have changed since your last visit.



# Email for Dollars

Dear Loomis,

Ever since I won the lottery a few days ago, I've made hundreds of new friends. It's so great! People from all over the country have written to me with thoughtful suggestions on how I should manage all that money. Many have even offered to take over the hassle of investing it. I've input all of my new friends' contact info into my Now Contact file, but I have to copy email addresses every time I want to send a message from Claris Emailer. Isn't there an easier way?

Ima Sucker

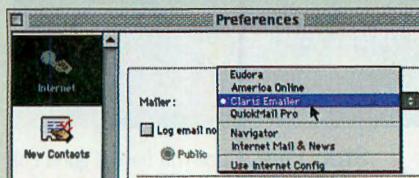
Dear Ima,

First, let's tackle your money-management problem. Few people know this about me, but besides being a renowned Internet advice columnist, I've also dabbled in Financial Care Management for the Logically Impaired. I'll call you soon with a bank account number you can use to store your winnings so they won't clutter up your existing accounts. In the meantime, use any of the following methods to email your friends with the great news that you've found a financial consultant.

## Absolute Now Contact

If you're using Now Contact 3.6.5, the program has a feature that may solve your whole problem.

**Step 1.** Set Now Contact's Internet Preferences to use your usual email client.



**Step 2.** Choose your contact in the Now Contact list and select Email from the Contact menu. Now Contact switches to your email application and creates a new message, addressed to your chosen contact.



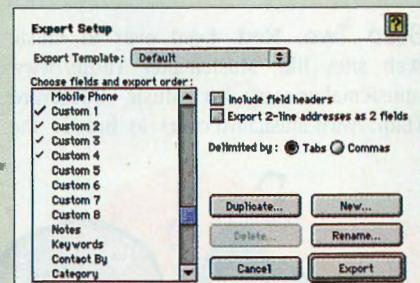
## Vintage Emailer

If you don't feel like opening up Now Contact just to send email, you can import your email addresses into Claris Emailer. (Unfortunately, Eudora Pro has limited address import capabilities, and there's no simple way to add addresses from an application like Now Contact.)

**Step 1.** Select the addresses you want to add to Emailer and choose Find Selected from Now Contact's Find menu. This will create a list of only your selected contacts.



**Step 2.** Select Export To Text File from the File menu; in the dialog box that appears, check only the fields for first name, last name, and each custom field you use to hold email addresses. (Strangely enough, Now Contact doesn't have dedicated fields for email addresses. It puts the information in custom fields; you'll have to scroll to see the contents.) You should also choose one more field, such as Company, which we'll put into Emailer's Description field. Export the file.



**Step 3.** In Claris Emailer choose Import Addresses from the File menu. In the dialog that appears, check to be sure the fields line up properly, clicking the right arrow to flip through the addresses. (If they don't line up, you'll have to go back and perform the Now Contact export operation again, this time rearranging the fields by dragging the entries in the export dialog.) When you're happy, click Import.

## Email Tip

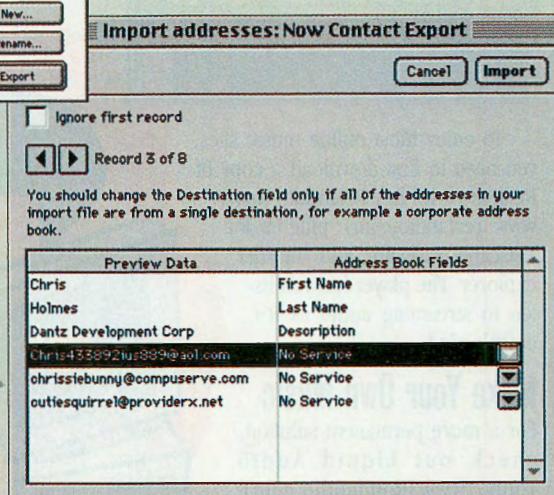
Claris addicts using Claris Organizer and Claris Emailer 2.X should head over to Fog City (<http://www.fogcity.com>) and download a set of AppleScripts called Emailer-Organizer Scripts. These scripts include a couple that automate moving email addresses between the two applications.

## EXTRA! EXTRA!

They're not obvious to the untrained eye, but some really useful Internet features were added to Now Contact in version 3.6.5 (a free upgrade to owners of version 3.6). Select any single contact and then test out these neat tricks, hidden in the Web Services submenu under the Contact menu:

*E-mail, Phone Number, Zip+4.* Select one of these three choices and Now Contact will switch you to your favorite Web browser, take you to one of the free Web search sites, and look up your contact's email address, phone number, or zip code.

*Get Street Map.* This choice switches to your favorite browser and then runs off to a special Infoseek mapping page that will draw a map showing exactly where your contact lives. One more click on the Web page will take you to a page where you can get driving directions as well, but at this point you'll have to type in the starting and destination addresses.



# Music to Browse By

## Dear Loomis,

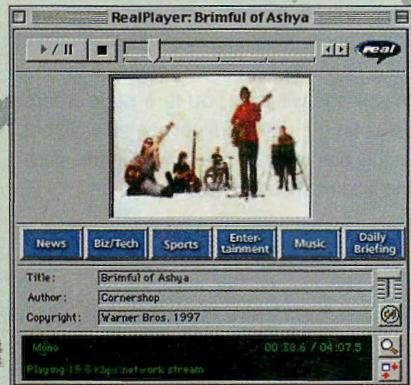
My soon-to-be-ex-brother dropped my boom box down the steps, and now I can't listen to my favorite radio stations while I'm browsing the Web. The silence is driving me crazy. I've heard that the Internet is alive with the sound of music. Is this true?

*Mad About Music*

## Dear Mad,

Alive with the sound of music? You don't get out much, do you? Fortunately, you don't really need to with all the latest and greatest tunes streaming across the Web. Log onto M.I.T.'s list of RealAudio radio stations (<http://wmbr.mit.edu/stations/bc.html>) to see if your favorite stations broadcast over the Net.

Why not just fix the boom box? Because your radio probably can't pick up Radio Russia (<http://www.russianet.ru/rusradio/eindex.html>), pirate "Rock, Reggae, Regional Music" from Nicaragua (<http://www.ibw.com.ni/~pirata/index.html>), or the last great independent free-form station, WFMU (<http://www.wfmu.org/ssaudionet.shtml>), from East Orange, New Jersey. And the boom box definitely doesn't tune in Imagine Radio (<http://www.imagineradio.com>), which broadcasts the MacAddict Hour, 60 minutes of talk radio hosted by your very own *MacAddict* editors.



To enjoy most online music sites, you need to first download a copy of RealNetworks' free RealAudio (<http://www.realaudio.com>) plug-in for Netscape Navigator and Internet Explorer. The player lets you listen to streaming audio as it's downloaded.

## Make Your Own Music

For a more permanent solution, check out Liquid Audio (<http://www.liquidaudio.com>),

which not only offers streaming audio, but also lets you download individual, CD-quality tracks you can burn onto your own homemade CDs. If you've got the hardware to master a CD-ROM, just download the tunes you like—at about a dollar a pop—and then use the Liquid Audio software to burn your own compilation. You always wanted Pearl Jam and Cat Stevens on the same compilation, right?

**Step 1.** Download Liquid MusicPlayer. Later, when you try to download your first music track, you'll be taken automatically to a Web site where you'll have to register the player. Though you must provide credit card info, it's just for identification—the player is free. Liquid Audio uses your card number to create a software passkey (the company calls it a Passport), which activates your player and keeps you from spreading copies of someone else's music all over the Web.

First / Last Name: Joseph Holmes  
E-Mail Address: [fidio@pobox.com](mailto:fidio@pobox.com)  
33.6K modem  
Mac OS  
 Please notify me of Liquid Audio events and updates  
[Get Liquid MusicPlayer CD](#)

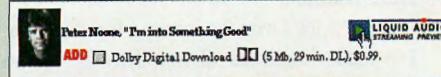
## Music Tip

If you use an email redirection service such as Pobox, enter your original ISP email address instead. The registration won't work with a forwarding-type email address.

**Step Two.** Next, head over to music Web sites like Musicmaker (<http://www.musicmaker.com>) or Music Boulevard (<http://www.musicblvd.com>) to browse the



selection of Liquid Audio tracks. (At Music Boulevard, all the Liquid Audio tracks appear under the brand name e-mod.) When you find an interesting track, click the Streaming Preview button to sample it via the Liquid Audio Player.



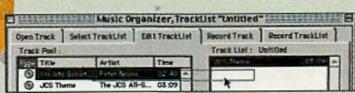
**Step Three.** If you like what you hear, check the price, which is displayed right next to the Buy Download button. Click that button to start the purchase process. The Player will send you to the Web pages where you'll pay for the tracks, so have your credit card ready. Follow the screens to complete the purchase. Although there aren't any shipping charges, you'll probably see a few cents added for taxes.



**Step Four:** At Music Boulevard's Your Personal Download Page, click the Download button to take possession of your track. Two to four minutes of CD-quality music can mean a 4MB or 5MB download, so be prepared to wait at least a half hour for your tune over a 28.8-Kbps connection. It's best to download during off-hours—at midday, when the Internet is especially busy, a track can easily take more than an hour.



**Step Five.** Once you have a good collection of tunes, select Edit TrackList from the Liquid Audio Player's Tracks menu, arrange your tracks the way you like, and burn your CD. If you don't have the hardware, you can still listen to the tracks from a hard drive or Zip disk, though heavy use of your Mac will interrupt the music. You can pay sites like Music Boulevard to burn your tunes onto a CD and ship them to you, but you can't get no immediate satisfaction.



# Psycho Surfer with Connections Anxieties

Dear Loomis,

My therapist says I have multiple personalities. Although this has actually made my life more exciting in most cases (I can be a little bit country and a little bit rock 'n' roll), it has made connecting to the Internet nearly impossible. Jodi uses only AOL, Jim is committed to CompuServe (still!), and Jackie, Jennifer, Julie, and Jeff all insist on using different local providers. Thanks to them I'm having a heck of a time changing settings, restarting, and logging on. Help!

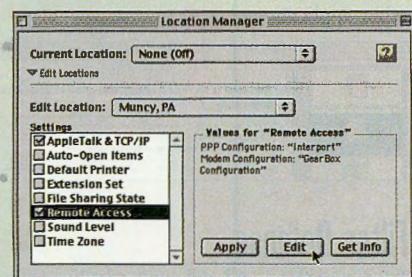
Split Up over ISPs

## Dear Split Up,

It sounds as if your problem would best be solved with some serious medication and a little time alone. In the meantime, you can choose among three easy ways to make switching between providers a breeze. We'll let your personalities duke it out over which one to use.

## Apple Location Manager

If you've upgraded to Mac OS 8.1, you can use Apple's Location Manager (previously available only on PowerBooks) to automate the ISP switching process. You can use Location Manager 2 on your desktop Mac to switch not only Internet providers, but also printers, sets of extensions (if you use Apple's Extension Manager), and more.



Create a new Location for each of your providers by first selecting New Location from the File Menu. Then check the boxes next to AppleTalk & TCP/IP and Remote Access. You need to change the TCP/IP control panel and the PPP control panel for each location, but Location Manager will lead you through the process.

Once you have all your ISPs set up, just open the Location Manager control panel and select your ISP. As the switch is made, Location

Manager informs you of progress and notifies you about changes to settings.

## GearBox

If you're not an OS 8.1 user, or if you like even more flexibility and power, Rockstar Studio's GearBox (<http://www.rockstar.com/gearbox.shtml>) lets you use a single menu to switch between providers. GearBox first leads you through a onetime setup for every ISP you plan to use. Then, when you want to swap in and out of ISPs, you simply select the ISP you want to hook up with from the GearBox panel's menu. GearBox changes all your settings in a few seconds. It even changes your browser's bookmarks for each provider.



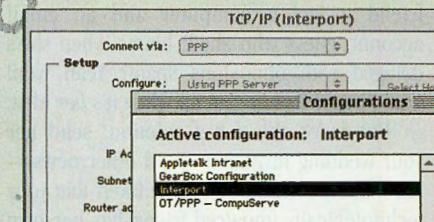
## TCP/IP

For a bit more work and a little less money, you can use the solution that's built into the current versions of Apple's TCP/IP and OT/PPP software. Starting with version 1.1, Apple's Open Transport software makes it easy to reconfigure settings without restarting every time you change ISPs, although you do have to set up a configuration for each of your ISPs in both your TCP/IP and PPP control panels first. Input that information once, and after that, flipping between providers merely requires you to switch configurations in the following two control panels.

**Step 1.** Open the PPP control panel. Press command-K, select the provider's configuration, and click Make Active. This operation just changed your PPP settings—that is, who you're dialing and how you log on.

**Step 2.** With the PPP control panel still open, select TCP/IP from the PPP menu. When

the TCP/IP control panel opens, press command-K or click Configurations from the File menu, select the provider's configuration, click Make Active, and close the control panel. This operation changes important Internet settings—for instance, where your software looks for vital URL information. That's it—you're golden.

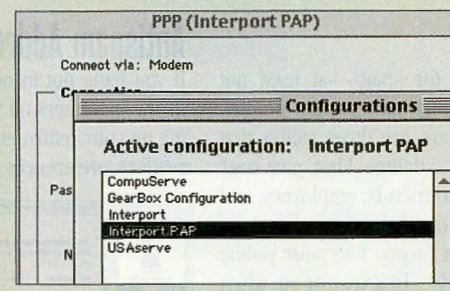


## Macro Tip

Name each configuration with a unique first letter. That way you can create a macro that performs all of the above steps from a single keystroke, accurately selecting any configuration after you type the letter.

Here, for example, is a OneClick (<http://www.westcodesoft.com>) script that switches your configuration to CompuServe (returns are shown as [return]):

```
Open (FindFolder "ctrl") & "PPP"
Wait (Process.Name = "PPP")
Type Command "k"
Type "c[return]"
Open (FindFolder "ctrl") &
"TCP/IP..."
Type Command "k"
Type "c[return]"
Type Command "w"
```



# The Chick Isn't into Email

Dear Loomis,

I love email (almost as much as my fiancée—in fact, that's how I proposed!), but I've got one stubborn friend who doesn't even own a computer. Can you believe it? As a result, I can't send her my email wedding invitation and I'm afraid she'll miss the entire cybceremony! How can I convince the Luddite to join the 1990s?

Anxious over Email

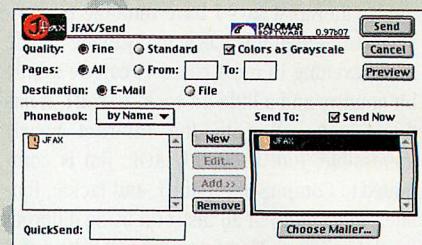
Dear Anxious,

Hold your horses. If you convince your friend to get a computer and an email account, guess who she'll blame when she's deluged with obnoxious spam? Yeah, you! You'd better let her sign up when it's *her* idea.

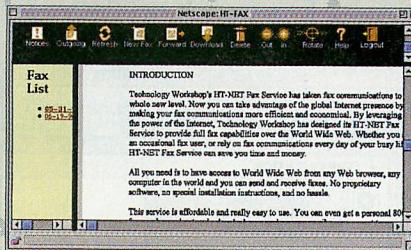
But how's this for a solution: send her your wedding invitation—and other news—via email fax! (Although it's unlikely that your technologically impaired friend has her own fax machine, we're assuming that she at least has access to one at work, unless of course she works for the Unabomber or the U.S. government.) It's a step or two more complicated than plain old email, and it's only worth the cash if you send lots of long-distance faxes (otherwise, hey, your modem's bundled

fax software can do the job), but you still get to skip the trip to the post office. HT-Net (<http://www.htnet.net>), an Internet fax service, costs \$9.95 per month, 15¢ per page for incoming faxes, long-distance charges for pages you send, and a \$29.95 setup fee. Another service called JFax (<http://jfax.com>) costs \$12.50 per month, which includes 200 fax pages and a one-time \$15 setup fee. The company sends you proprietary Macintosh software to create and view faxes. With both HT-Net and JFax, you compose a fax and email it to the service, and the company dials up your friend's fax machine and sends your message like a real fax. For more information on faxing, check out Kevin Savetz's Internet Fax FAQ (<http://www.savetz.com/fax-faq.html>) or Internet Fax Info (<http://www.netpower.no/frost/fax/>).

To send a fax, just compose an email message to your friend in your usual email application. Attach any graphics or documents in JPEG, GIF, or PICT format. Enter your friend's fax number as the email's subject and send the email to HT-Net.



To send a fax via the JFax service, open the Chooser and switch to JFax's fax driver. "Print" your fax just as you would when sending a normal Macintosh fax. This creates your fax and automatically attaches it to an email message addressed to JFax. When your friend sends a fax to you, her fax machine dials a special JFax number. The fax is then forwarded to you as an attachment to your incoming email. Open and view the attachment with the JFax viewer application or using Netscape Navigator with a JFax plug-in.



# Spammed I Am

Dear Loomis,

I love email but I'm drowning in spam. Today I was offered six different ways to make extra income at home in my spare time by stuffing envelopes—with ham salad! I've reached the point where I dread checking my email. What should I do?

Sunk with Junk

Dear Sunk,

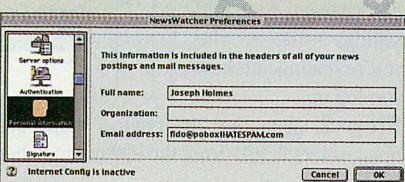
There's no cure for spam—at least not until the Supreme Court makes spam punishable by death. But here are three tactics that can at least reduce the deluge. First, give your private address only to friends, employers, and family. Never use it on Web pages, in newsgroups, or to fill out forms. Use your public address everywhere else. In a year or so, when it's flooded with spam, simply kill the public address and create a new one.

In order to pull this off, you need two email

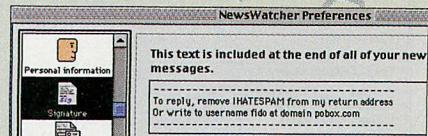
addresses. An elegant and inexpensive method is to use an email service such as Pobox (<http://www.pobox.com>), which for about \$15 a year lets you create up to six different email addresses, all forwarded to the same email account on any provider. There are other similar services—check Yahoo or another search site for email forwarding services.

## Antispam Address

If you hang out in newsgroups a lot, you can throw spammers off your trail by simply messing up your return email address in your news reader's preferences.



In your signature, include instructions on how to reach you: "To reply, simply remove IHATESPAM from my email address." But don't use this tactic in Internet Config—you don't want your fake address appearing in other applications.



## Filter Defense

Tried everything and still can't stop the spam? Filter it out! Many email programs let you filter incoming email into predetermined storage boxes to prevent undesirables from clogging up your in-box. For example, Claris Emailer lets you create a Mail Action ([http://www.fogcity.com/em\\_utilities2.0.html](http://www.fogcity.com/em_utilities2.0.html)) that moves most spam into a separate folder, allowing you to double-check the messages before you delete them. (Eudora can do some but not all of this.)

**Step 1.** To set your spam filter in motion, first create a new folder called Spam. Then

# Crash and Burn

Dear Loomis,

After a series of crashes last week, I discovered that some of my software is hopelessly out of date. Every day it gets worse and worse. I just discovered that I missed three updates to Now Utilities in the past week alone! Am I doomed to a future of bugs and crashes?

Bugging Out

Dear Bugging Out,

*Doom* spelled backwards is *mood*, and you can easily improve yours by keeping your applications current. We know of two tricks: one is free but labor intensive, and the other is lazy but expensive. Take your pick.

## The Free Way

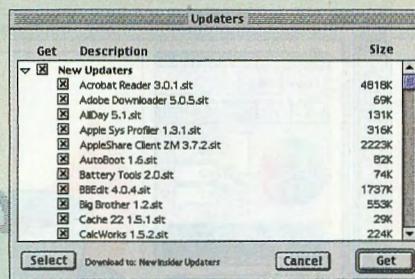
Free for all, VersionTracker (<http://www.versiontracker.com>) lists an incredible number of new software releases, all linked



to download sites. A similar site, MacUpdate (<http://www.macupdate.com>), adds special features and separate pages for games and reviews. Visit either site daily and update as needed to keep your system healthy.

## The High (Price) Way

If you don't mind parting with some cash, two commercial applications make the process of keeping files up to date almost



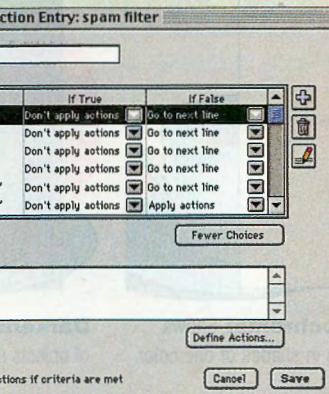
easy. Insider Software's Insider Updates (\$7/month, \$80/year, <http://www.theinside.com/iutop.html>) is incredibly simple: it downloads the company's latest database of software versions, compares them to the software on your hard drive, and then down-

loads the newest versions for you. Once the software is on your hard drive, of course, it's up to you to install it.

We found Shaman Corporation's similar Shaman Update Server: Personal Edition (\$70, <http://www.shaman-update.com>) slower and more confusing. Nonetheless, the darn thing found dozens of files to update.

choose Mail Actions from Emailer's Set-up menu, and in the dialog box, click New. Step 2. Click the More Choices button, and then click the + button to create each test. Create the first four criteria shown in the illustration. Make sure the filter knows it should weed out messages that were blind-copied to you, that someone who isn't in your address book sent, or that don't have anyone from your address book in the addressee list. You can also use the "From contains" criteria in the mail action to specify domains you know to be nonspammers—your own ISP, for example, or apple.com.

Now, whenever you see that incoming email has been dumped into your Spam folder, give it a quick glance to make sure it's not mail you want, and then vaporize it, slowly and painfully if you like.



## Antispam Tip

Forged mail headers often have a distinctive time stamp—"600 (EST)"—that won't appear in unforged email. You can include a check for that text in your spam filters. □

MacAddict contributing editor Joseph O. Holmes listened to WFMU while writing this article.





# reviews

FreeHand Design in Motion, Microsoft Office 98: Man, this is one suite month!

## FreeHand 8



**FREAKIN' AWESOME**  
The most valuable products, the coolest gizmos.



**SPIFFY**  
A solid offering. Overall a good investment.



**YEA, WHATEVER**  
A few good features, but generally a waste of time and money.



**BLECH!**  
We hate to even blotch our pages with the thing.

### GRAPHICS & SOUND

**COMPANY:** Macromedia

**CONTACT:** 800-449-3329 or 415-863-4409,

<http://www.macromedia.com>

**PRICE:** \$399 stand-alone (street); \$149 upgrade;

\$199 competitive upgrade from Adobe Illustrator or

CorelDraw. Design in Motion suite \$499 full; \$299

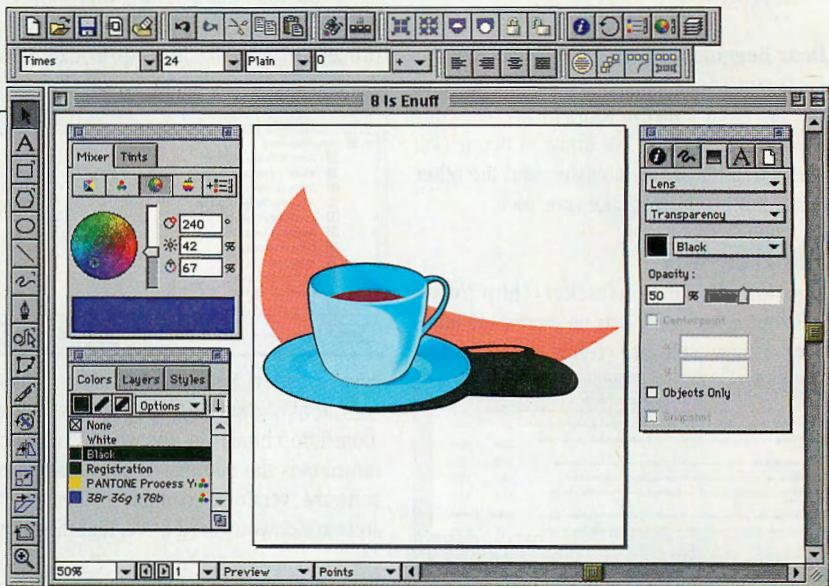
upgrade

**REQUIREMENTS:** PowerPC, System 7.1 or later,

16MB of RAM (32MB recommended), 30MB of free

hard disk space (60MB recommended), CD-ROM

drive, PostScript printer (recommended)



Illustrations by Chris Vandepoel

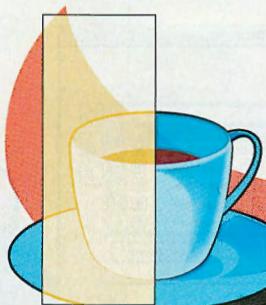
If you've ever found yourself wishing your vector drawing program worked *with* your brain for a change, you definitely want to check out FreeHand 8. With FreeHand 8, you can easily create many awesome effects that in other drawing programs require lots of Bézier point twiddling, duplicating, and calculating. The program's new features are powerful and intuitive—Macromedia clearly went to great lengths to help artists focus on art rather than the program.

Lens fills, probably the splashiest of FreeHand's new features, let you create effects previously available only in raster-image editors such as Photoshop and Painter. Use the transparency fill, for example, to make an assigned section of your drawing appear see-through. Other Lens fills lighten, darken, invert, and magnify objects. The astounding thing about Lens fills is that they work on and with vector objects, and the objects remain editable in vector format.

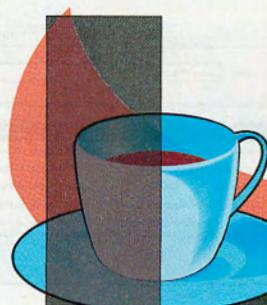
There's one thing to keep in mind when you're working with Lens fills: each fill creates duplicates of its underlying objects and contains the duplicates. This means if you start layering Lens fills, your file size can balloon quickly.

The Freeform and Reshaping tools are also fun and work intuitively. How many times have you wanted to sculpt a section of a vector object, and your only option was to

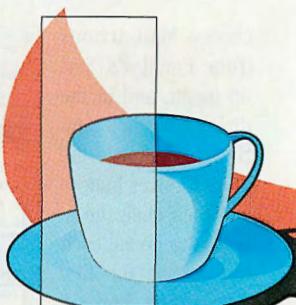
**ANYONE VERSED IN VECTOR ILLUSTRATION** programs will quickly make sense of FreeHand 8's interface. The real power lurks in areas such as changeable command keys and the new Lens fills shown below. You can edit and move the added rectangle and it still maintains its filter quality.



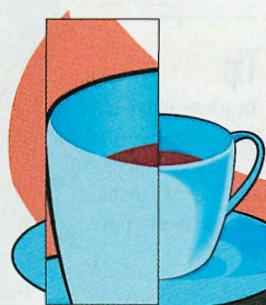
**Monochrome:** Shows objects in shades of one color.



**Darken:** Darkens the colors of objects under the filled object.



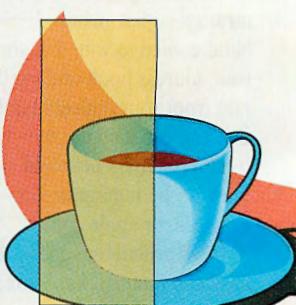
**Lighten:** Lightens the colors of objects under the filled object.



**Magnify:** Magnifies objects under the filled object.



**Invert:** Switches colors to their complements.



**Transparency:** Makes objects see-through.

## Flash 2

**COMPANY:** Macromedia

**CONTACT:** 800-449-3329 or 415-863-4409,

<http://www.macromedia.com>

**PRICE:** \$299 (street)

**REQUIREMENTS:** 68020 or faster (68040 recommended), System 7.5 or later, 8MB of RAM (16MB recommended), 5MB of free hard disk space (10MB recommended), CD-ROM drive, Netscape 2.0 or later

Flash 2 (available for purchase as a separate application or as part of the Design in Motion bundle) is not just another Web graphics-creation tool. With Flash 2 you can create vector-based animations, images, and interactive buttons to spice up Web sites; vector-based images are quick to load on a Web page and retain their crisp vector quality, even when you zoom in on them. The Flash 2 installation CD ships with sample files, fonts, and ready-to-go animations, images, sounds, and buttons.

Flash's drawing tools and features allow you to import and edit graphics or roll your own from scratch. You can import and redraw bitmapped graphics as vector art, edit them, or use them as fills. The Tweening feature takes two animation set frames, automatically calculates the changes, and creates additional frames between the original two, adjusting attributes such as color, rotation, size, and motion. Also, version 2 now supports sound, so you can synchronize sounds to specific frames and button actions.

As with many other Web special effects, viewing Flash movies requires site visitors to download and install yet another browser plug-in. A lot of people don't mind doing that, but take into account your site's target audience. If many have older, slower machines and modem connections, you may want to offer an alternate page free of special effects, matching the content of each regular Shockwave Flash page.—*Elyse Chapman*

**GOOD NEWS:** Small animations load faster. Images and text retain quality even when enlarged. **BAD NEWS:**

Shockwave Flash plug-in required for viewing Flash-enhanced sites.



in review

### FUN & GAMES

DEADLOCK p. 54

DARK COLONY p. 57

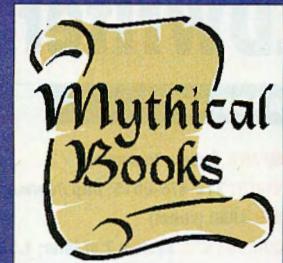
F/A-18 KOREA p. 58

### DISK & FILE

DISKEXPRESS PRO 3.0.1 p. 52

## Freeform Tool

The Freeform tool is an intuitive way to push and pull Bézier curves into shape without tedious point-by-point path editing and handle tweaking. However, if you do wish to perform fine adjustments to your paths after using the Freeform tool, you can still do so—the points are available for individual editing as usual.



edit it point by point, fighting with handle after handle? The Freeform and Reshaping tools allow you to push and pull portions of a vector object until you get the shape you want, almost as if you were molding clay. With these new tools, you spend a lot less time twiddling and more time being creative.

The new Graphic Hose feature allows you to spray vector images into your documents. Squirt a single logo into your layout or spray a border of logos around a page or ad. This feature is a kick to use and easy to learn.

Macromedia has built flexibility into FreeHand 8. You can save, name, and view up to eight custom versions of a document, as well as customize both toolbars and keyboard shortcuts. You can also combine panels (most other programs call them palettes), snap-align them to each other, or dock them together—and most are resizable. FreeHand now offers keyboard shortcut sets from other popular graphics and publishing programs, including Adobe Illustrator 6 and 7 and CorelDraw 6. If you don't like the shortcut sets provided, you can assign custom shortcuts.

Note, however, that the behavior of some menu commands changes when you use another program's shortcut set. Typing the shortcut assigned to some commands results in a different outcome than using the mouse to choose the same commands from the menu. The customizable shortcuts feature may not be perfect yet, but it's way better than anything Adobe and Quark currently offer. We also experienced intermittent display problems with floating panels that dropped *behind* other floating panels and toolbars when clicked. To select the correct one, we had to

click the one that was in the way—floating on top—and the desired one became accessible.

Other new FreeHand 8 features allow you to create several styles of drop shadows and emboss effects for vector objects. The new Mirror tool allows you to create complex circular patterns and symmetrical objects quickly and intuitively, and you can rasterize vector images in place with less RAM than previous versions required—eliminating the need to export your artwork to Photoshop.

FreeHand 8 now exports to Shockwave Flash 2 movie format, and imports and exports lots of other new file formats. (We must note that elements sometimes dropped from the illustration when we exported to PDF. To be on the safe side, it's probably best to stick with Adobe's Distiller for PDF.) With the Insta.HTML program that ships with the full Design in Motion suite, you can also export FreeHand pages to HTML. Insta.HTML is, for HTML pros, a handy tool for quick mock-ups of Web pages; for print designers beginning to dive into the Web, it's an easy way to get your feet wet.

Although there are odd display glitches that need to be fixed, we've so far not found flaws that make us want to give up all the awesome new features and performance enhancements of FreeHand 8. With this version, FreeHand leaps way beyond the competition.—*Elyse Chapman*

**GOOD NEWS:** Perform complex effects quickly. Souped-up application performance. Lower RAM requirements. **BAD NEWS:** Annoying display anomalies with floating panels (aka palettes). Some funkiness with alternate hot keys.



### GRAPHICS & SOUND

FREEHAND 8 p. 40

DEBABELIZER 3 p. 44

PAINTER CLASSIC p. 50

### COMPRESS & TRANSLATE

CANOPENER 4.0 p. 52

### PERSONAL PRODUCTIVITY

WORD 98 p. 46

EXCEL 98 p. 48

POWERPOINT 98 p. 49

### HARDWARE

CDWRITER p. 42

### THAT'S INFOTAINMENT

VINTAGE AUTOMOBILES p. 60

YOU DON'T KNOW JACK VOL. 3 p. 60

YOU DON'T KNOW JACK TV p. 60

### COMPATIBILITY

POWERPOINT 4.0 p. 55

reviews



## reviews

## CDWriter

## HARDWARE

**COMPANY:** Optima Technology**CONTACT:** 714-476-0515; <http://www.optimatech.com>**PRICE:** \$850 (street)**REQUIREMENTS:** System 7 or later; 1.5MB of RAM, 5MB of contiguous free hard disk space

All those interested in making their own CD-ROMs should check out the CDWriter from Optima Technology. Using conventional CD-R write-once media as well as the new rewritable CD-RW media (rewrite up to 1,000 times on one CD), this CD-ROM burner lets you create larger and faster CD-ROMs than ever before. And with the CDWriter, creating CDs is as easy as using your Mac OS Finder. Optima's enhancements of an already high-quality Yamaha mechanism yield a unique and powerful drive.

The CDWriter's speed is rated at 2X/4X/6X, corresponding to rewriting, writing, and reading. Keep in mind that

rewriting requires the special CD-RW media, and only fairly new CD-ROM readers can mount this CD format.

Two great features put this drive in a class well above other drives on the market. The first is Optima's software driver. When you insert a blank CD-R or CD-RW, a dialog asks you to format the disc, which then appears as an HFS volume. As an HFS volume, you can simply drag files and folders to your CD-ROM. If you're rewriting, you can also modify and delete using standard Finder operations. To produce CDs in a regular CD-ROM format, you can opt to burn

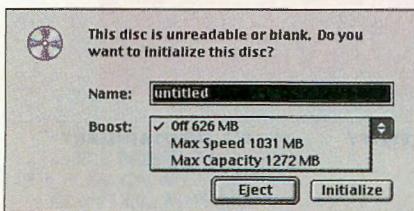
## Over a Gigabyte on One CD-ROM!

How do you fit 1.3GB on a 650MB disc? Optima's proprietary writing technology uses special SCSI operations and a lossless compression scheme to reduce the space required to hold data. Not only does this technological improvement bump up storage capacity, it also increases the speed at which the CD-ROM reads and writes. With a typical file mix, you'll see an average speed increase of about 30 percent in both reading and writing. The caveat is that already compressed data, such as QuickTime movies, JPEG files, or StuffIt archives, will not benefit from boosting in either speed or space savings.

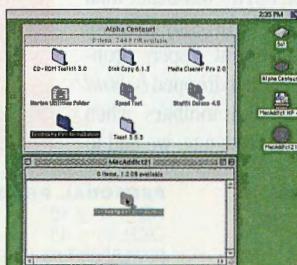
The CD-R Access Reader control panel is required to read a boosted disc in a normal CD drive. Luckily, Optima has seamlessly integrated the control panel into the boosted CD's volume format: each boosted CD contains a copy of it (it's only 255K), which users are prompted to install.

## EZ/CD

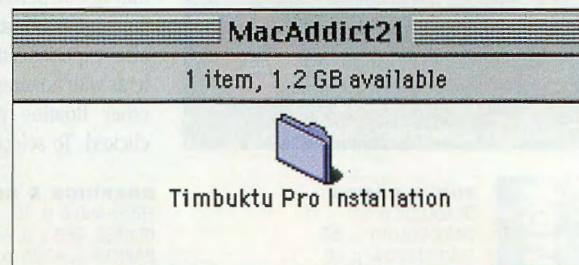
Thanks to Optima's special drivers, creating a CD has never been easier. With a few simple steps, you'll have all your important files stored for posterity. In fact, burning a CD with CDWriter is as simple as using the Finder.



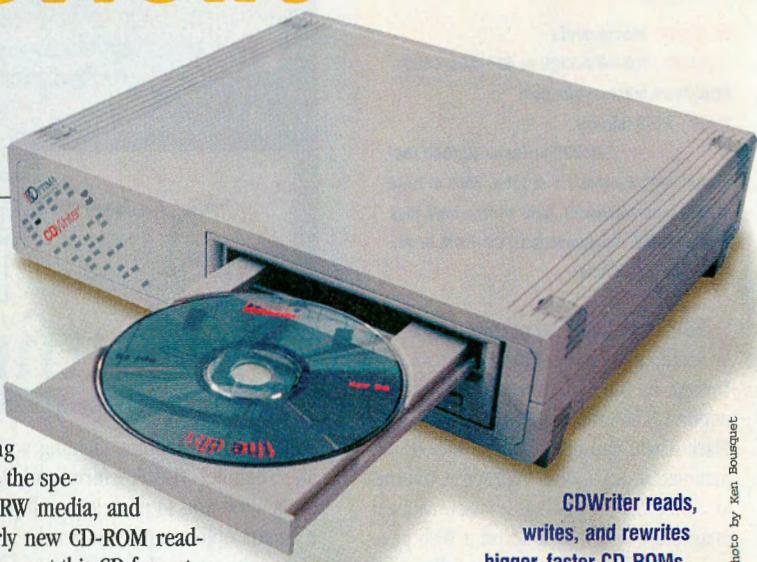
**1** When you insert a blank CD, you are asked to select a formatting option. After initialization, the CD will appear on your desktop.



**2** To copy files and folders to the CD, just drag them to the CD icon in the Finder.



**3** After it has finished copying, the Finder shows how much space is left on the CD. You can remove files easily by trashing them.



CDWriter reads, writes, and rewrites bigger, faster CD-ROMs.

Photo by Ken Bouquette

with Adaptec's Toast application, which Optima bundles with the drive for \$50 extra.

The CDWriter's second stand-out feature is a combination of hardware and software compression that lets you fit up to 1.3GB on one CD. This technology also increases the reading and writing speed of a CD-ROM (it will read even faster in a conventional CD-ROM drive). Optima boasts speed increases of up to 50 percent, though our tests showed a more humble 30 percent increase.

Optima's new drive is a solid, no-compromise, high-end CD burner. Its drag-and-drop ease of use and extra storage capacity make the CDWriter perfect for personal backup and archiving, professional graphics and publishing, or anytime you want to put data on a CD-ROM.—Wade Albright

**GOOD NEWS:** Creating CD-ROMs is as easy as using the Finder. Store up to twice as much data on a CD-ROM.

**BAD NEWS:** Already compressed data does not benefit from boosting.



# Now, recover things even Norton can't

## Introducing Aladdin FlashBack™

### FlashBack your work and you're protected.

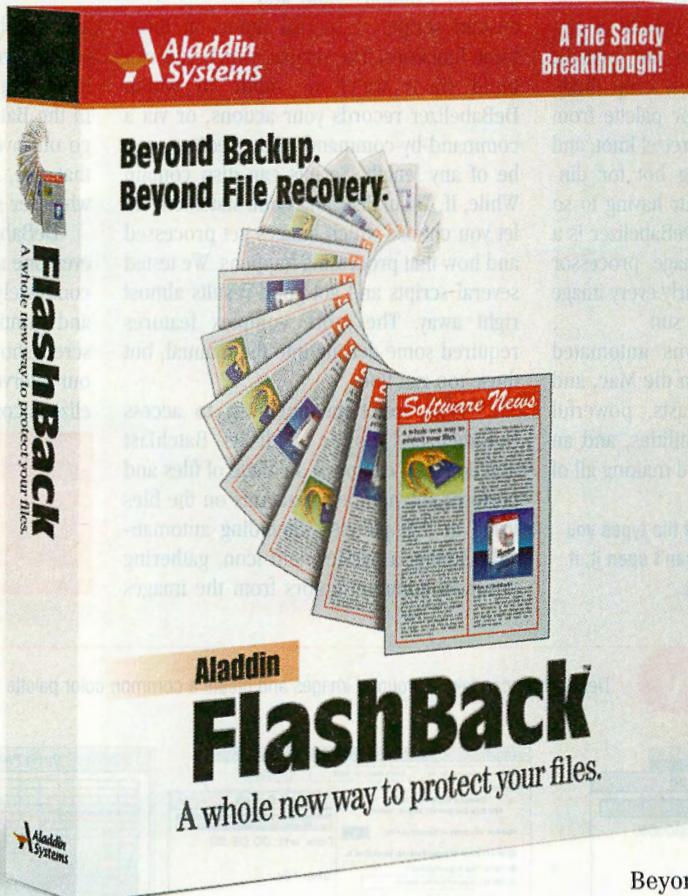
Protected against loss by accidental deletion, file corruption, even from hitting the save key and over writing your file. Aladdin FlashBack is a whole new way to protect your files.

With FlashBack you can recover not only lost or damaged files, but even previous versions of files that you changed, even if you made the changes months ago.

### Unlimited undos

Discover the power—and time savings—of unlimited undos. FlashBack tracks changes made to a file every time you hit Save. Recover from changes even after you've quit your application, turned your computer off and gone home. If you ever saved a FlashBacked file, you can recover it exactly as it was at that time.

**Works on any file** If your application saves files, FlashBack will protect you. From word processors to graphics programs, from databases to spreadsheets, from HTML to C++.



**Instant file recovery** Restore any file you've protected just by double clicking. No confusing procedures, no complex operations. It doesn't get any faster or easier.

Plus, FlashBack works with both local and networked files.

### Save Disk Space

Keep multiple versions of your important files without gobbling up disk space. FlashBack makes only one complete copy of your file. Previous versions are tracked through tiny "diff" files containing only the changes, or differences, between one version and the next. The result? You can save five, ten, twenty or more versions of a file in less room than you would use hitting 'Save as' just a couple of times!

### Time & Date

**Stamping** FlashBack time and date stamps each version it saves, making it the organized alternative to cluttering up your folders with cryptically named 'Save as' files!

It's a new level of protection. Beyond backup; beyond recovery. FlashBack gives you a whole new way to protect your files and save your sanity.

 **Aladdin Systems**

(800) 732-8881 [www.aladdinsys.com](http://www.aladdinsys.com)  
©1997 Aladdin Systems Inc. All trademarks are property of their respective owners.

# reviews



reviews

## DeBabelizer 3

### GRAPHICS & SOUND

**COMPANY:** Equilibrium

**CONTACT:** 800-524-8651 or 415-332-4343, <http://www.equilibrium.com>

**PRICE:** \$379.98 (street); \$149.98 (upgrade)

**REQUIREMENTS:** 68020 or faster, System 7.1.2 or later, 2MB of RAM, 10MB of free hard disk space

**W**hat is DeBabelizer good at? Automation, batch processing, conversion. What doesn't it do? It's not a full-featured image editor.

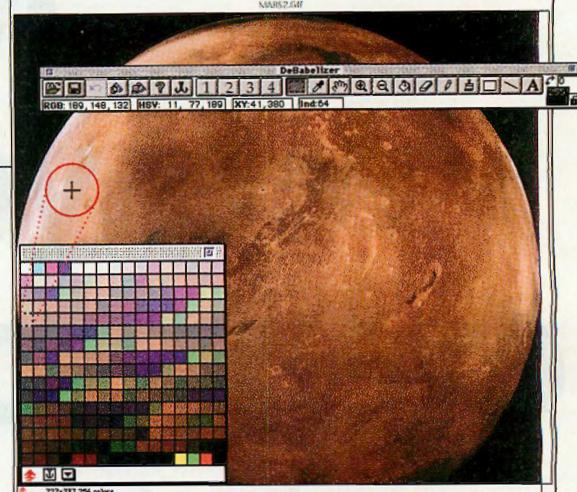
DeBabelizer is the ideal tool for people who have to work with lots of images or lots of image formats. The program can take a bundle of pictures in 18 different file formats, convert them to GIFs, crop them, cull a common color palette from them, tie them in a pretzel knot, and serve them steaming hot for dinner—all without your having to do much as click OK. DeBabelizer is a great automated image processor that understands nearly every image file format under the sun.

DeBabelizer owns automated image processing on the Mac, and here's why: BatchLists, powerful internal scripting abilities, and an intelligent eye toward making all of

**My, what a long list of file types you have. If DeBabelizer can't open it, it probably doesn't exist.**

this as easy to use as possible. You can take advantage of built-in basic automation functions—open a set of files and save them in a different location and file format, for example—and add custom scripts at several points in these basic functions. The scripts, which you can build via a watch-me mode in which DeBabelizer records your actions, or via a command-by-command script editor, can be of any length. Scripts can also contain While, If, Then, Else, and Endif statements to let you choose which images get processed and how that processing happens. We tested several scripts and got good results almost right away. The more complex features required some delving into the manual, but those too ran fine.

Scripts aren't the only way to access DeBabelizer's power. With its BatchList function, you can open a palette of files and perform any number of actions on the files listed in that palette—including automatically adding a preview and icon, gathering the most common colors from the images



**It's a simple interface, but we like it. DeBabelizer automatically shows you what color is under the cursor—but this trick only works on images with a limited color palette.**

and combining them into a single color palette, and comparing all of the images for identical pixels. You can also include URLs in the BatchList, which tells DeBabelizer to go out over the Internet, grab images from that site, and process them according to whatever script you choose. Pretty spiffy.

DeBabelizer has won the heart of almost everyone at *MacAddict*. The program almost completely automates a complex conversion and printing process we conduct on every screenshot we publish, and it does so without our intervention. This alone is worth DeBabelizer's cost.—*David Reynolds*

**GOOD NEWS:** Automation up the wazoo. Drag-and-drop simplicity. Tons of supported file formats—even Dr. Halo. **BAD NEWS:** Some features seem hidden. Error prone.

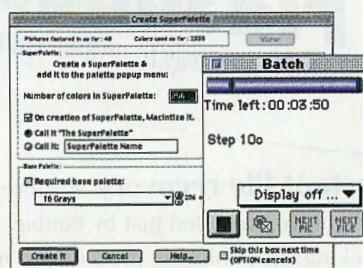


### One from Many

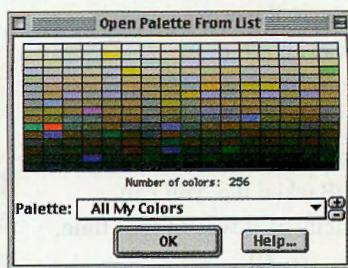
DeBabelizer can take a group of images and create a common color palette for them. It's easy.



**1** First, create a BatchList of the available files. Click the BatchList Window button and drag the files you want onto the window. Click the SuperPalette button. DeBabelizer analyzes the images in the BatchList for the best common color palette.



**2** Once DeBabelizer analyzes all of the available images, it presents this dialog box. From here, you can decide the number of colors in the palette and other specifics.



**3** And there you have it, the palette of the best possible colors from 48 screenshots with more than 2,000 colors. Using DeBabelizer's automation, you can then make all of those images conform to the same set of colors—great for Web work.

Mac users appreciate easy. And no one makes having a website easier than InterLand®. From as little as \$19.95 a month, you can start a business, promote an existing business or even share your hobby with the world. And we'll be with you every step of the way with toll-free, 24 hour support. We can even help you with professional website design. Whether you're a beginner or a computer veteran, InterLand can help bring you the world.



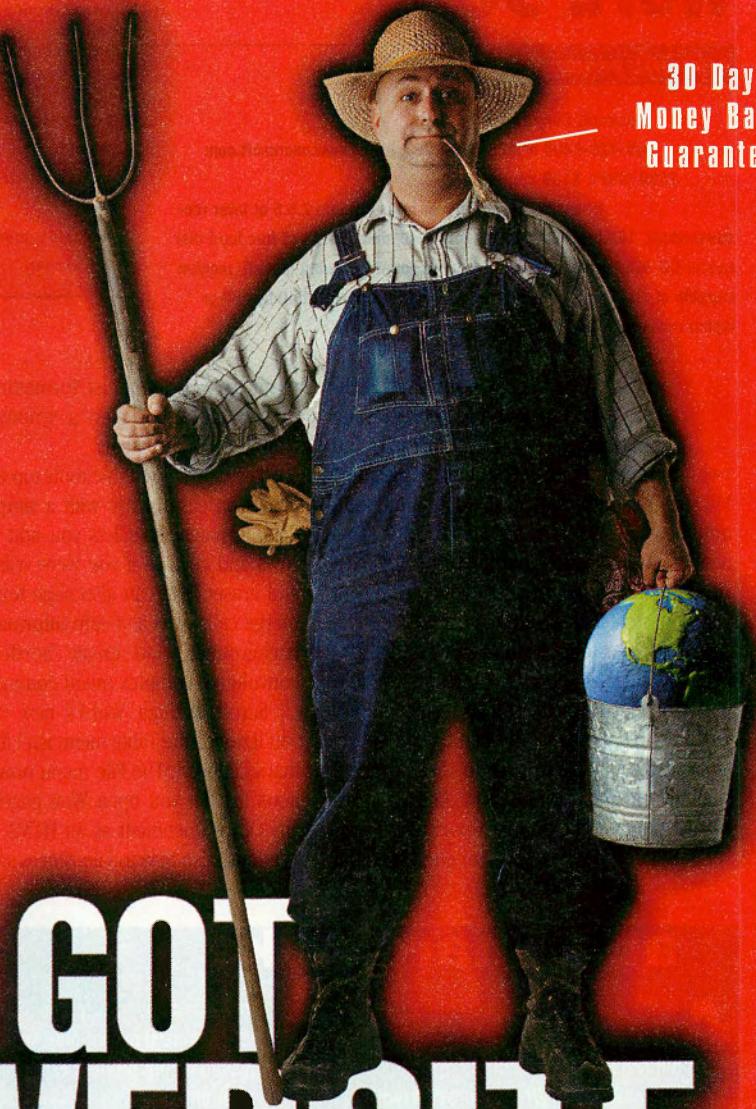
**Pricing From  
\$19.95 per Month**

- 80 megabyte storage
- unlimited e-mail forwarding
- unlimited e-mail aliases
- unlimited e-mail autoresponders
- free domain registration\*
- front page '97 & '98 support
- real time credit card servers
- unix and nt servers
- anonymous FTP
- real time statistics
- secure server
- RealPlayer
- RealAudio
- Cold Fusion and more

**1-800-599-0546  
(404) 586-9999**

\*EXCLUDES INTERNIC \$50 ANNUAL DOMAIN FEE. SAME DAY SET UP ON ALL ORDERS. \$40 ONE TIME SET UP FEE ON NEW WEBSITES.

**30 Day  
Money Back  
Guarantee**



**HE'S GOT  
A WEBSITE.  
DO YOU?**

**Website Hosting  
From \$19.95**

**Website Design  
Development from Scratch**

**Reseller Programs  
Income for Website Designers**

***The Only Website Hosting Company With 24 Hour Toll-Free Support***



# reviews

## Word 98

### PERSONAL PRODUCTIVITY

**COMPANY:** Microsoft Corporation

**CONTACT:** 800-426-9400 or 425-882-8080, <http://www.microsoft.com>

**PRICE:** \$399 (SRP); \$199 upgrade

**REQUIREMENTS:** PowerPC, System 7.5 or later (System 7.5.5 or later recommended), 16MB of RAM (32MB recommended), 60MB of free hard disk space, CD-ROM drive (or network connection for network install), monitor capable of displaying at least 16 grays or 256 colors at 640 by 480 or higher resolution, CD-ROM drive

**M**icrosoft Word is no longer the application you know and loathe. After the disastrous release of Word 6.0 (which many considered a downgrade), Microsoft gathered up all the hate mail, took note of what went wrong, and fixed it. This new version doesn't merely atone for past sins, it makes word processing fun again with a slew of new features and shortcuts.

Word 98 catches both spelling and grammar mistakes as soon as you type them and underlines errors with red and green squiggly lines, respectively. You can fix the errors by control-clicking to call up the improved spelling checker, which now knows more words. Control-clicking in a paragraph presents a dialog box that lets you cut, copy, and

paste as well as adjust formatting, draw a table, or insert a synonym from Word's thesaurus.

The new Draw Table tools top the charts on ease of use with a simple floating palette that lets you add and delete rows and cells as if you were using a pencil and eraser. You can also align text, split and merge cells, sort and sum information, color backgrounds, and create borders without convoluted, complex menu commands.

Scroll through Word's new menus and you'll notice the Table menu isn't the only one that's changed. The File menu now offers options that let you open Web pages and save any Office document as an HTML Web page. Versions, also new to File, stores saved copies

of a document in one file, so you can compare versions without saving repeatedly. The View menu introduces an Online layout view as well as eight new toolbars, which give you more control in editing movies, pictures, text, charts, Web pages, and even Visual Basic. Document Map, another new feature, creates a hyperlinked index of your document in a frame, so you can jump to parts of your article as if it were a Web page. Now that Office 98 supports Apple technologies like QuickTime and QuickTime VR, you can easily import movies via the Insert menu.

If you don't know what's in a long document, Word can automatically summarize it. It's not always accurate, but it gives you a general idea of the document's key topics. Editors will appreciate the Track Features tool, which highlights changes using the appropriate editing symbols. And anyone writing a letter can probably do it better with the new Letter Wizard, which enters the formalities, even if they're not quite heartfelt. Font fanatics will herald the return of the Font menu (now WYSIWYG), while efficiency experts will dig the comeback of Word 5.1's Work menu, which contains often-used documents for quick click access.

Word 98 has so drastically evolved that it bears scant resemblance to its predecessor. Sure, it still sucks up RAM, but it's the most advanced word processing application to date.—*Nikki Echler*

### Share and Share Alike

**A**lthough Word 98 boasts a ton of new Word-only features, the entire Office has been renovated with cool, cross-application conveniences. How? Why? Microsoft programmers used a lot of the same code to create all of the applications, which not only helps assure compatibility within Office, but works to make all of the apps run faster. Here are some examples of what sharing can do.

**Easy Install**—Office 98 no longer weighs more than your family minivan now that one CD has replaced the piles of floppies formerly needed to install the Office beast. Even better, to install Office 98, all you need to do is drag the Office folder onto your hard drive.

**Self-Repairing Applications**—Throw out an important library or mystery extension vital to the application's survival and the program no longer ceases to run, it fixes itself.

**The Office Assistant**—This friendly little assistant takes a variety of shapes; in all

of them it stands by to help you in your time of need. The Assistant not only answers your questions, but proffers expert advice when appropriate.

**Drag and Drop Support**—Select any part of your Word, Excel, or PowerPoint document, drag it onto your desktop, and then drop it into any other application that supports drag and drop.

**Save as HTML**—Everyone wants to have a seat on the Web, and now it's as easy as saving your Word, Excel, or PowerPoint document in HTML.

**Compatibility**—All Office 98 documents are compatible with Office 97 for Windows, which makes coexisting with PCs possible, if not tolerable. Also, diehard fans of earlier versions can obtain conversion modules so that they can open Office 98 documents, though not always with all the extra bells and whistles, like visible revisions.

**GOOD NEWS:** It looks and acts like a killer Mac application. **BAD NEWS:** Why does an application this cool have to come from Microsoft? Sigh.



**View**  
 ✓ Normal  
 Online Layout  
 Page Layout  
 Outline  
 Master Document

Toolbars  
 ✓ Ruler  
 Document Map  
 Word 5.1 Menus  
 Header and Footer  
 Footnotes  
 Comments  
 Reveal Formatting  
 Full Screen  
 Zoom...

✓ Standard  
 ✓ Formatting  
 AutoText  
 Background  
 Database  
 ✓ Drawing  
 Forms  
 Movie  
 Picture  
 PowerBook  
 Reviewing  
 Ribbon  
 Ruler  
 ✓ Tables and Borders  
 Visual Basic  
 Web  
 Word for Macintosh 5.1  
 WordArt  
 ✓ Toolbar 1  
 Customize...

EarthLink Network

TotalAccess software  
is included on  
the enclosed  
CD-Rom

# These days, many AOL users are finding themselves S.O.L.

## AOL: America Off Line?

Even though AOL is by far the largest online service, it now costs more and continues to be among the least accessible. The fact is, many subscribers still wait to get on AOL far longer and more often than with other providers.

Access, of course, is everything. And if you're looking to AOL to provide it, you're \*?!# out of luck. With EarthLink, you'll find that we're up 99.9% of the time. You also won't be burdened with the annoying busy signals and disconnects AOL is famous for (nor their high prices: we're still \$19.95 a month). And because we have more local access numbers than any other Internet Service Provider, you can also get on the Net more easily. Speaking of easily, that's how you can get in touch with us. Our phone number is cleverly listed below. Talk to you soon.

| PC MAGAZINE ISP RATINGS (9/97)         |           |      |
|--|-----------|------|
|  | EarthLink | AOL  |
| Call Rate Success                      | Good      | Poor |
| Average Throughput<br>(download speed) | Excellent | Poor |
| Web Throughput Success                 | Excellent | Good |
| Overall Performance                    | Good      | Poor |

EarthLink **Still \$19.95**  
PER MONTH

**(888)QUIT-AOL, ext. 3563**  
784-8265



**It's your Internet.™**

[www.earthlink.net](http://www.earthlink.net)



## reviews

## Excel 98

## PERSONAL PRODUCTIVITY

**COMPANY:** Microsoft Corporation**CONTACT:** 800-426-9400 or 425-882-8080, <http://www.microsoft.com>**PRICE:** \$399 (SRP), \$149 upgrade**REQUIREMENTS:** PowerPC, System 7.5 or later (System 7.5.5 or later recommended), 16MB of RAM (32MB recommended), 60MB of free hard disk space, CD-ROM drive (or network connection for network install), monitor capable of displaying at least 16 grays or 256 colors at 640 by 480 or higher resolution

**M**icrosoft Excel has been in an enviable position in the Mac OS spreadsheet application market for several years. It is the only full-featured, stand-alone spreadsheet package. With an estimated 99 percent of the Mac market in its back pocket, Microsoft could easily get away with minor upgrades. Instead, the company has introduced a wide range of improvements in Excel 98 that make it easier to use and more flexible.

Excel 98 takes some of the mystery out of writing formulas with Natural Language Formulas, which let you write formulas based on column and row headings. For example, if column C contains Cost and column D contains Revenue, a formula in column E to calculate Markup Percent could be  $=(\text{Revenue}-\text{Cost})/\text{Cost}$  rather than the cryptic  $=(D2-C2)/C2$ . A form of this feature was available in previous versions, but it required the creation and application of range names, and only advanced Excel users utilized it.

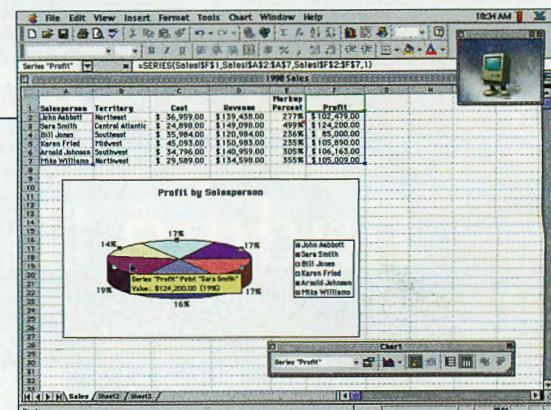
Two other new features help you write and edit formulas. Formula AutoCorrect prevents 15 common syntax errors—such as unmatched quotes or parentheses, double operators, and extra decimal places—by pointing

out the error and offering to fix it. Range Finder highlights referenced cells, making a formula's components and logic clearer.

Excel 98 includes many new cell-formatting features. You can now freely rotate, indent, and automatically size cell contents to fit. You can merge cells to span multiple columns or rows. Conditional Formatting can apply formatting based on a cell's contents—for example, displaying values over a certain amount in bold or colored type. Data Validation, which you can apply to individual cells, lets you prevent incorrect data entry by specifying entry criteria.

Charting has also been improved. The Chart Wizard is easier to use, and new chart types include pyramid, conical, cylindrical, bubble, pie of pie, and bar of pie.

Excel 98 allows multiple Mac OS and Windows users to share Excel workbook files over a network. Comments, an improvement over Cell Notes, lets users enter comments that appear on screen when a user points to the annotated cell. Track Changes automatically tracks each user's changes so they can be accepted or rejected. And Merge Work-



**NEW FEATURES IN EXCEL 98 include the Office Assistant, Range Finder, and Chart Tips.**

books merges several versions of the same workbook file into one file.

No new program would be complete without Web-related features, and Excel 98 has useful ones. Internet Assistant Wizard can save workbook files as HTML documents or tables. Workbooks can include live Web page and email links. Excel can even perform queries to obtain data from Web pages. Microsoft is also introducing HTML tags for spreadsheets that will add functionality to HTML documents opened with Excel 98.

Think all this is more than you need? Consider Excel's multiple undos and ability to make adjustments in Page Preview mode. It's worth upgrading for these two features alone.

Excel's feature set offers far more than the average spreadsheet user needs. Microsoft did its homework this time.—Maria Langer

**GOOD NEWS:** Easier to use. Useful new features. Built-in Web support.

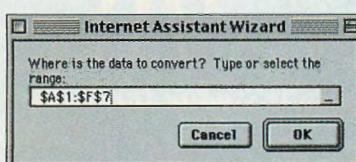


**BAD NEWS:** Won't run on 68K Macs.

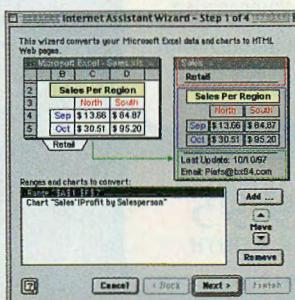
It's the only stand-alone Mac spreadsheet.

## HTMExcel

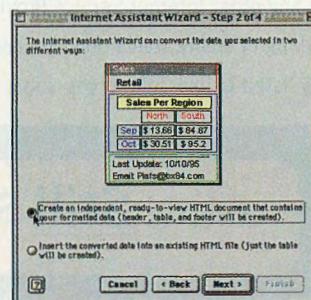
One of Excel 98's neat new features is the ability to turn a worksheet into a Web page. Here's how to do it.



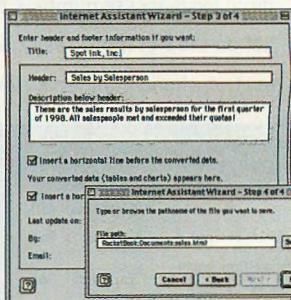
**1** From an open worksheet, choose Save As HTML from File to display the Internet Assistant Wizard.



**2** If necessary, use the Add or Remove buttons to add or remove ranges to convert.



**3** Specify whether you want to create a separate Web page or an HTML table.



**4** Enter other information, specify a disk location, and click finish.

# reviews



## PowerPoint 98

### PERSONAL PRODUCTIVITY

**COMPANY:** Microsoft Corporation

**CONTACT:** 800-426-9400 or 425-882-8080,

<http://www.microsoft.com>

**PRICE:** \$399, \$149 upgrade from previous versions

**REQUIREMENTS:** PowerPC (120MHz or faster recommended), System 7.5 or later, 16MB of RAM (32MB recommended), 50MB to 120MB of free hard disk space, CD-ROM drive

With the demise last year of Adobe Persuasion, Microsoft's PowerPoint reigns supreme (well, OK, alone) among presentation programs for the Mac. PowerPoint 98, part of Office 98, is a worthy upgrade from PowerPoint 4, even if it still lags behind the Windows version in features.

Like all the Office 98 products, PowerPoint underwent a big face-lift and now looks more like a Mac application. The basics are the same, however; you can still create slides from templates or from scratch, and you can

### Skip It!

When you're making a presentation, you can pop up a contextual menu by holding down the control key and clicking. From the menu, you can skip to any slide in your presentation, as well as annotate slides on the fly.



work in several modes, including Slide View, Outline View, and Slide Sorter. Toolbars abound, so you'll want at least a 17-inch monitor.

An excellent new feature in PowerPoint is the small color-preview window that shows you what a particular slide looks like when you're composing a presentation in the Outline view. You can also preview a black-and-white version of any slide on screen for a quick look at how it will print.

A new Meeting Minder feature lets you record notes and action items during a presentation, then generate a slide containing all those notes. A similar feature allows others to add color-coded sticky notes to your slides.

Other improvements include more animated effects for text, graphic objects, and slides, as well as beefed-up Charting with animation and new chart types. PowerPoint 98 also contains a cool Custom Shows feature that lets users pick subsets of a presentation for particular audiences. And finally PowerPoint now supports a variety of file formats including GIF, JPEG, QuickTime, and the new PNG (Portable Network Graphics) format.

PowerPoint 98 is a step forward, but it

**POWERPOINT'S NEW** black-and-white view makes it easy to adjust your slides to look just as good on paper as they will on screen. Notice the small color preview giving you constant feedback on your actions.

isn't without flaws. First off, while all Office 98 programs now include output to HTML, PowerPoint's misses the mark. It saves each slide as a GIF or JPEG image (along with buttons to let you navigate the slide show), but you generally need to reduce slides in size to display them comfortably in most Web browsers, reducing the readability of text and bitmapped graphics. Second, PowerPoint still lacks several features in the current PC version. PowerPoint 97 for Windows, for example, lets you automatically create a summary slide from selected slides in your presentation.

As the last major presentation program for the Mac, PowerPoint 98 is the winner by default. Monopolies and glitches aside, PowerPoint does its job and lets you create interesting, flashy presentations, with more flexibility than in previous versions. PowerPoint may be the stepchild of the Office suite, but it's grown up to be a solid citizen.—Tom Negrino

**GOOD NEWS:** Excellent interactivity features. Handles more graphics formats. **BAD NEWS:** RAM hog. HTML output not up to par. Missing some cool features found in the PC version.



## PowerPrint

Need to connect your Mac to a PC-printer?  
Call 1-888-842-5306



Because one day you'll need to print to a PC-printer and you won't remember where the heck you saw this ad

For only \$99, PowerPrint has the software and smart cable that makes Mac to PC printing possible. Call us now at 888-842-5306 or come and visit at [www.infowave.net](http://www.infowave.net).



# PowerPrint

# reviews



reviews

## Painter Classic

### GRAPHICS & SOUND

**COMPANY:** MetaCreations

**CONTACT:** 800-846-0111 or 805-566-6200, <http://www.metacreations.com>

**PRICE:** \$99 (SRP)

**REQUIREMENTS:** PowerPC, System 7.5 or later, 12MB of RAM, CD-ROM drive

**K**eep those scissors away from your ears: Painter Classic makes it so easy to create art like a master, you'll have plenty of time to deal with the metaphysical angst that goes along with it. New from MetaCreations, this package is a "lite" version of Painter 5, cost-reduced and feature-trimmed for less adept and less wealthy users.

If you're familiar with Painter, you know that its focus is different from that of other image-editing programs, such as Micro-Frontier's ColorIt and Adobe Photoshop. Painter mimics real-world papers and tools artists already know. Brushes brush, paints run, and inks bleed. Rather than take an existing image and apply filters and changes to it, with Painter you create your own original art.

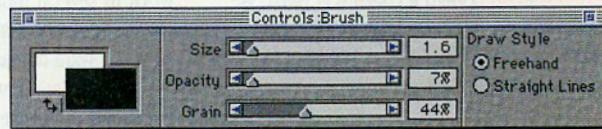
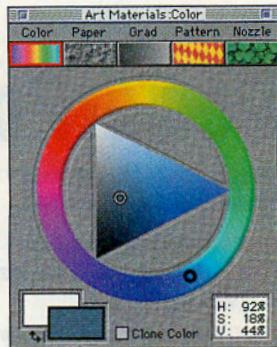
Painter 5, the big brother to Painter Classic, costs \$299 and targets high-end professional artists. It offers mosaics, layers, animation, and more complex color management than does the Classic version. (It also lets you create your own tools, one feature you might miss in Painter Classic.) Classic offers dilettantes a chance to explore our creativity without the hassle of cleaning brushes.

The primary tool in Painter Classic is the *brush*, a term that applies to many different artistic implements. MetaCreations has taken great pains to include the imperfections, lack of precision, and character inherent in each of its varied brushes. The application comes

with 15 brush categories, each with a subset of types. The Pencil, for example, offers 2B, sharp, and colored pencils as options. A plug-in lets you go online and grab all the weird brushes you can find (most, but not all, of Painter 5's brushes work with Painter Classic).

Another brush, the Image Hose, sprays the page with a variety of changing images. Because it doesn't simply duplicate a single image, this is a great way to add individual leaves to trees, flowers to a foreground, or people to a crowd. The number of nozzles the CD supplies disappointed me, though; I soon got tired of painting with poppies.

Working with all the brushes can be complex—you can modify each brush's size, opacity, and grain as well as choose its colors and parameters. Painter Classic has an idiosyncratic interface that takes getting used to. You may have to hunt for basic functions at first and resort to the manual's tutorials to figure out, for example, why you can't erase watercolors from your page. But in the end, navigating Painter Classic is fairly easy. We can also thank MetaCreations for the addition of a color wheel. The separate controls for Hue and Saturation/Value are wonderfully intuitive and allow you to control colors perfectly.



**Painter Classic**—a stripped-down version of Painter 5—offers those tantalizing brushes sans the hefty price tag and steep learning curve.

Once you've laid paint to canvas, Painter Classic's wealth of image filters cover the basics well. You can soften an image, modify its brightness/darkness, rotate and flip, and apply interesting lighting effects. Another great feature is the Tracing Paper, which lets you see an image behind the current canvas. This is useful if you want to use a scanned photo to start your landscape masterpiece.

Overall, Painter Classic is a terrific tool for someone who's just getting started with computer graphics and doesn't need Painter 5's more advanced features or can't afford its price tag. Painter Classic probably won't drive you to metaphysical madness, but creating natural-looking art on your Mac may make you crave a color printer. So much for that price savings.—*Scott Love*

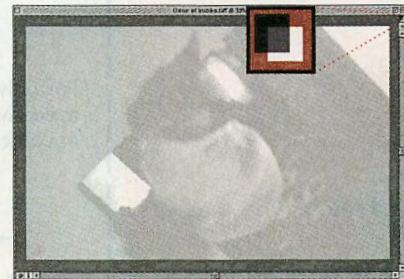
**GOOD NEWS:** It's cheap(er)! Intuitive color wheel. Great Tracing Paper and Image Hose features. **BAD NEWS:** Bit of a learning curve. Too few Hose images on the CD. Manual is presented as a tutorial rather than as a reference.

### Drawing Bubba

Like Painter 5, Painter Classic lets you import an image to clone and trace via Tracing Paper. Remember to complete your trace before saving it—Painter Classic discards the trace pattern when you save.



**1** Open an image. Under File select the image as the Clone Source, and select Clone.



**2** Select all and press delete. Turn on Tracing Paper from the Tracing Paper toggle.



**3** Paint away. Use the toggle or command-T to turn your tracing guide on and off.

Your Fears Unleashed.

Your Senses Expanded.

Your Reality Altered.

Forever...

# reviews



reviews

## DiskExpress Pro 3.0.1

### DISK & FILE

**COMPANY:** Alsoft

**CONTACT:** 800-257-6381 or 281-353-4090, <http://www.alsoftinc.com>

**PRICE:** \$89.95 (SRP), \$29.95 for upgrades

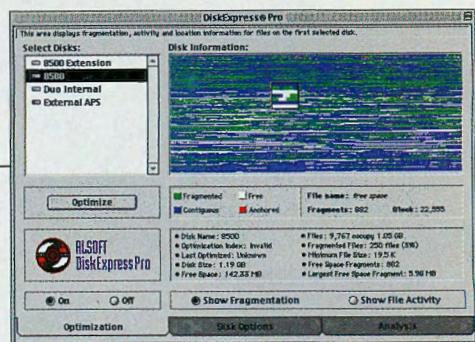
**REQUIREMENTS:** 68020 or faster, System 7.0 or later, 1MB of RAM

Files on a hard drive tend to fragment over time. As files grow, get modified, and are resaved, they end up scattered in pieces around the drive. In extreme cases, fragmentation can slow down disk access, as the disk's heads search far and wide to read a file. Playback of huge files, such as QuickTime and sound files, begins to suffer.

Alsoft's DiskExpress cures file fragmentation by rewriting all the files into contiguous space on the drive. For safety, the application first checks blocks and directories for damage and corruption, and it never erases a file until it has moved the copy first.

It offers five alternatives for optimizing file placement, including options for maximum free space, quick access to most-used files, and faster optimization. This latest version of DiskExpress sports a neater and easier-to-use interface and adds more flexible scheduling.

It took DiskExpress about 1 1/4 hours to examine and optimize our moderately fragmented 1GB disk. By skipping disk diagnosis, however, another hard drive took about half that time. We tested our drives before and after optimization and found a humble speed increase of about 2.5 percent on the optimized drive. The results would probably be



**DISKEXPRESS PRO CONSOLIDATES** the former version's windows into a single tabbed control panel.

more dramatic on a badly fragmented disk.

Is disk optimization absolutely necessary? For the average user, perhaps not, but then neither is cleaning out the basement. DiskExpress Pro is smooth and easy to use, and it made us feel good about our hard drives again.—*Joseph O. Holmes*

**GOOD NEWS:** Good variety of optimization styles. Flexible scheduling options. **BAD NEWS:** Optimizing takes a long time. May not be necessary for the average user.



## CanOpener 4.0

### COMPRESS & TRANSLATE

**COMPANY:** Abbott Systems

**CONTACT:** 800-552-9157 or 914-747-3116, <http://www.abbottsys.com>

**PRICE:** \$65 (SRP), \$29 upgrade

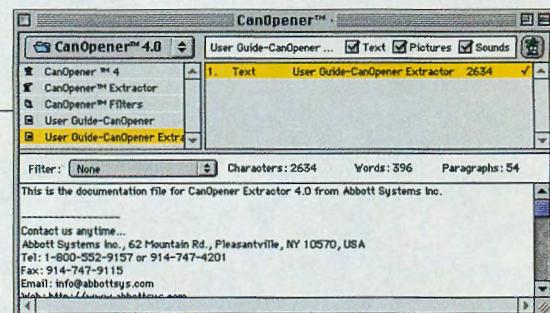
**REQUIREMENTS:** 68020 or faster, System 7.0 or later, 5MB of free hard disk space

CanOpener accesses text, pictures, and sounds contained in files you can't open because you don't have the appropriate application. Just drop a file onto CanOpener and the file appears (or is played, if it's a sound file) along with the file's directory and resource information. You can save text and sounds to use in other programs, and you can convert images into one of 22 different formats. New in version 4.0 are filters for cleaning up files and finding text, a Web link, and a separate utility for filtering files in batches.

Unfortunately, CanOpener's interface is confusing. For instance, choosing a new file in the directory pane doesn't automatically update the other windows. And the handy new Web link button lets you easily access

the CanOpener User Services Web Page, but that site is void of useful information.

The Filter option, however, is a worthwhile addition. After opening a text file, you can choose from this pop-up menu to show only sentences with dollar signs, numbers, telephone numbers, names, question marks, IP addresses, or any other strings you specify. You can also ask it to strip out HTML codes, extra carriage returns, and blank spaces. These filters can be useful (especially when you use them in conjunction with CanOpener Extractor, the new stand-alone utility that performs bulk data mining), but they don't always work as expected. For example, on test files containing phone numbers, CanOpener insisted there were no numbers because they weren't in what it considers sentences. This sort of problem is com-



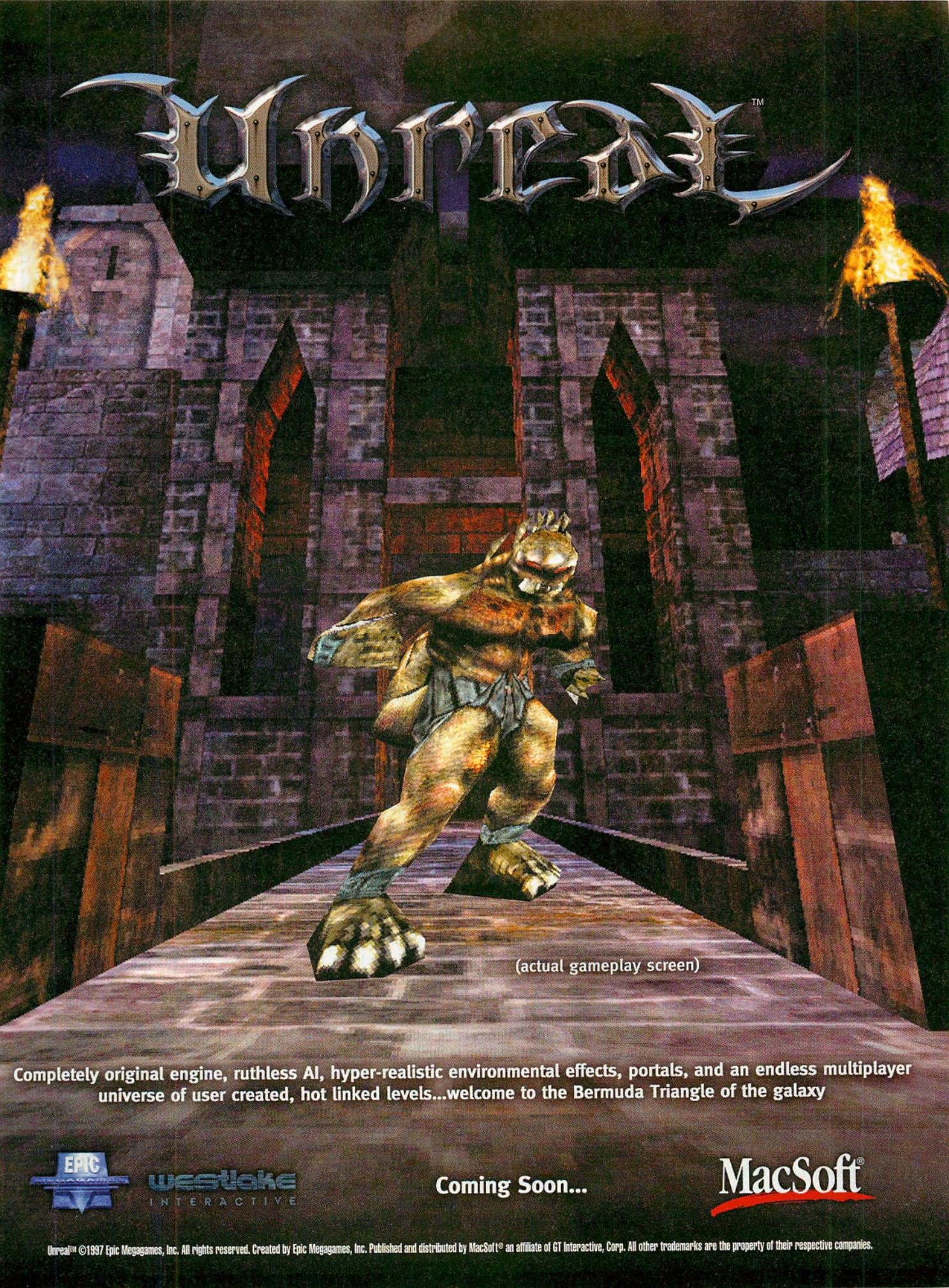
**CANOPENER DOES A GOOD JOB SHOWING** what's inside almost any file, but its new filtering options don't always work correctly.

pounded by the fact that there's no explanation of how any of the filters work.

Until Abbott Systems improves the interface and provides decent documentation, most users would be better off with freeware and shareware programs that perform many of the same tasks as CanOpener, including Apple Data Detectors, GraphicConverter, and MagicBullets.—*Owen W. Linzmayer*

**GOOD NEWS:** Opens any file. Converts graphics formats. Powerful filters. Batch processing possible. **BAD NEWS:** Confusing, non-standard interface. Web page lacks useful information. Filters don't work as promised. No printed documentation. Poor user manual.





Completely original engine, ruthless AI, hyper-realistic environmental effects, portals, and an endless multiplayer universe of user created, hot linked levels...welcome to the Bermuda Triangle of the galaxy



westlake  
INTERACTIVE

Coming Soon...

MacSoft

# reviews



reviews

## Deadlock

### FUN & GAMES

**COMPANY:** MacSoft

**CONTACT:** 800-229-2714 or 612-509-7600,

<http://www.wizworks.com/macsoft/>

**PRICE:** \$44.95 (SRP)

**REQUIREMENTS:** 68040 or faster, System 7.1 or later, 8MB of RAM, CD-ROM drive, color monitor

Ever been to a dog fight? Neither have we. But that's the premise of Deadlock. Seven alien species (humans among them) are vying for control of the planet Gallius IV. Rather than spark an interstellar war, the sadistic leaders of each empire drop 500 hapless colonists onto the surface to let them decide who gets the bone. It's a no-holds-barred contest for the resources of the planet. Establish a successful colony while preventing the other species from doing the same and you win.

Deadlock is an interesting cross between Maxis's SimCity and Blizzard Entertainment's Warcraft. It combines the tasks of building facilities, encouraging population growth, studying technology, and engaging in combat. Resource management is primary, but neglect to produce, say, Holocaust Cannons and you'll end up watching the Tarth demolish all your cities.

### Tips and Hints

**Build apartment complexes early.** The more you have, the faster your population will grow.

**Win the technology race.** Concentrate on food and population in the first turns of the game. Then shift all available resources to research. Winning the technology race is the key to winning the game.

**Start near things.** When selecting a site for your first colony, find an area that can access other varied areas. You'll need cities in swamps, forests, mountains, and plains.

**Start away from things.** When selecting a site for your landing, try to position yourself away from enemies and in an area only one enemy has access to. Use that enemy as a buffer.

**Build buildings in pairs.** One building generates its respective resource while the other works on upgrading.

**20 steel equals 100 iron.** Use more-efficient metals as much as possible. By using steel instead of iron, you'll cut down on transportation costs among cities.



**THE MAPS OF YOUR FEW CITIES** is where you'll spend most of your game time. Here you can see what resources you have available (lower right), your population (midright), research progress (midright), an overview of the planet (upper right), and your city and where your colonists are working (main city area in middle).

The game is turn-based—a boon for gamers who wish the frenetic pace of real-time strategy games allowed for careful planning. Play consists of building both facilities and military units while juggling ten different resources.

As a single-player game, Deadlock is a great diversion for a weekend or two. The artificial intelligence in the game initially offers a fair challenge, and learning how the resources and facilities interact is fun. The presentation of the game is top-notch as well. You find yourself saying, "I'll play just one more turn," well into the morning.

One glaring fault in Deadlock is automated combat. After building cities and researching technologies to produce impressive armies, players simply move troops onto enemy colonies and watch the fireworks happen during their turn update. The game would be far more interesting if troops required movement and attack orders during battle at the very least.

In addition to the lackluster nature of Deadlock's combat, the game misses perfection on a few other points as well. Ultimately the game proves a bit simple. Players will be able to divine winning strategies after just one or two games. Furthermore, the negligible differences between maps don't offer players much variety in future games.

Fortunately, Deadlock has another side



**DEADLOCK'S PRESENTATION** is top-notch—the game is filled with rendered cut scenes and great graphics.

once you've exhausted the single-player game. Get online or connected to a LAN and you'll be able to bash six of your friends into submission. The game is far more intense when you play it against friends (or enemies) and offers a more strategic, slow-paced alternative to real-time combat games like Myth or shoot-and-kill games like Quake. Unfortunately, you can't play Deadlock at one computer "hot-seat" style, ruling out play by email and even the possibility of saving a multiplayer game in progress.

Overall, despite its flaws, Deadlock is a welcome port from the Windows world. Mac lovers should be happy that MacSoft is bringing such great titles to the Mac. We hope they keep them coming. —*Scott Love*

**GOOD NEWS:** Great graphics. Fun sim with combat-style play. Turn-based pace. **BAD NEWS:** Automated combat. No multiplayer on a single computer. Low replay value.





# reviews

## PowerPrint 4.0

### COMPATIBILITY

**COMPANY:** Infowave

**CONTACT:** 800-663-6222 or 604-473-3600, <http://www.infowave.net>

**PRICE:** \$99 (street)

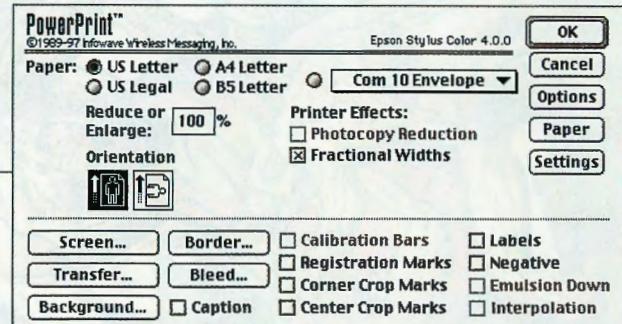
**REQUIREMENTS:** Mac SE/30 or faster (for color/grayscale printing only), System 7.1 or later, 4MB of RAM

I can hear the whining already: "But why would I *want* to use a PC printer?" Well, here are a few reasons: Your brother gives you a color inkjet printer, no strings attached—except that it's not a Mac printer. You're on the road with your PowerBook and the *only* printer at your hotel is a PC printer. You need to buy a specialized printer, and the best ones available are PC only. Then there's the fact that PC printers are far cheaper than Mac printers. And that's why PowerPrint is a pretty darn impressive product. For a mere \$99, it allows almost any Mac to use almost any PC printer, and that's

a lot of printers; more than 1,400 are supported. (For a full list of compatible printers, visit Infowave's Web site at <http://www.infowave.net>).

Installing PowerPrint couldn't be simpler. Just plug the included cable (it has ADB and serial connectors at one end and a parallel connector at the other) into your Mac's ADB port and printer (or modem) port, and then plug the other end into the PC printer's parallel port. Turn on the Mac, install the printer driver, and—boom—you're ready to print.

We tested PowerPrint with the Epson

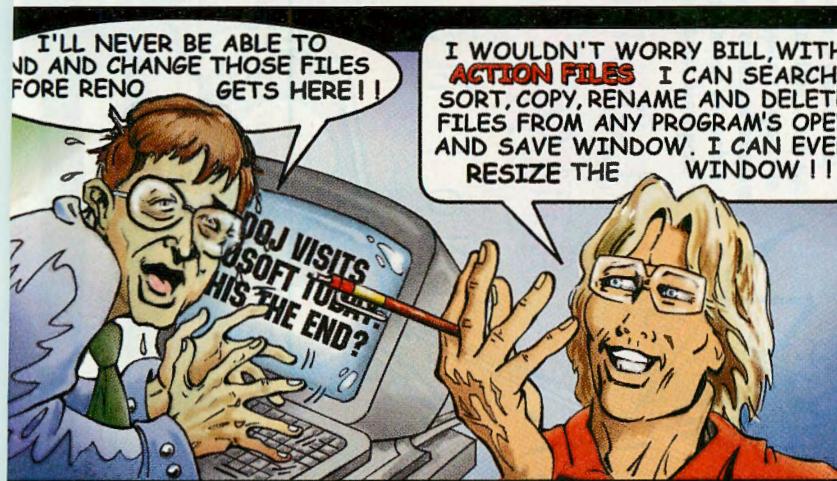


Sure, it's just a dialog box, but look at how easily PowerPrint integrates into Photoshop's Page Setup dialog box—just as you would expect from any printer driver.

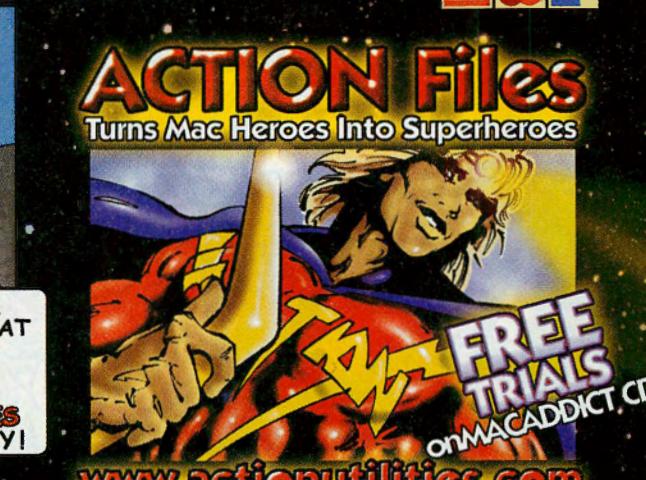
StylusColor 600 and the Alps MD-1000. Both printed perfectly.

PowerPrint allows Mac users to choose just about any PC printer they like. The product is inexpensive and easy to install, and it works. Best of all, it means one less argument about why we should give up our Macs.—David Reynolds

**GOOD NEWS:** Supports 1,400 PC printers. Easy setup and installation. Good print quality. **BAD NEWS:** What bad news?



Power On Software, Inc.  
Phone 800-344-9160  
612-317-0344  
Fax 612-317-0345



**ACTION Files**  
Turns Mac Heroes Into Superheroes



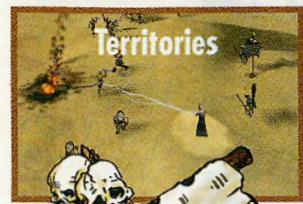
VISIT US @  
MACWORLD BOOTH #357

TO BE CONTINUED...

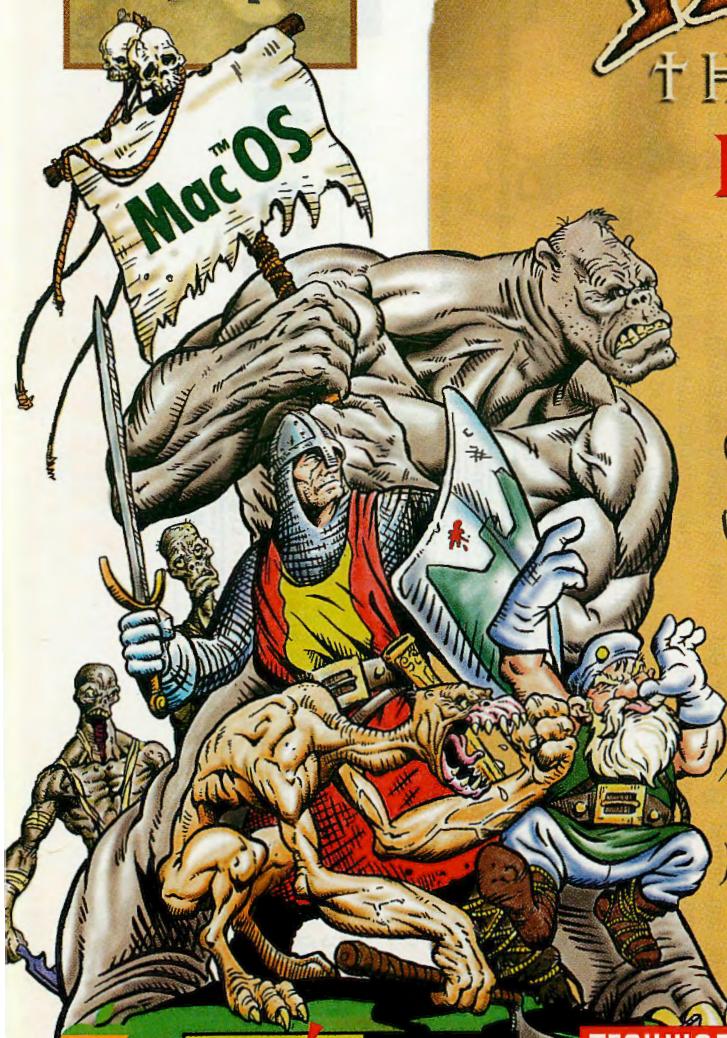
Last Man on The Hill



Territories



Mac™OS



# Myth™ THE FALLEN LORDS™

## Platform Wars TOURNAMENT

Since the dawn of time computer users have filled the newsgroups with furious but empty debate about which is the best computing platform.

Enough talk! Now there's a chance to settle the question for good — and win outstanding prizes in the process!

In mid-June, 1998, 500 Myth: The Fallen Lords players will take the battlefield to defend their platform. In the end a few champions will have earned the right to represent the Mac™OS and Windows® 95 platforms.

- All entrants eligible for random prizes\* including T-shirts, hats, gift certificates and even 3Dfx cards!
- Finalists will fly to Las Vegas for a finals match broadcast live over the Internet via Imagine Radio.
- The champion will walk away with head held high and a new computer, the runner-up with gobs of RAM, a 3Dfx card, and a busted ego.

PC Myth players, go to [www.pcgamer.com](http://www.pcgamer.com) for details and to register; Mac Myth players, [www.macaddictnetwork.com](http://www.macaddictnetwork.com). More information can also be found at the bungie.net web site,

[www.bungie.net](http://www.bungie.net)



**CYBERIAN** Outpost

TECHWORKS 

Mac  
ADDICT

PC GAMER

 bungie.net

 BUNGIE

Steal The Bacon



Scavenger Hunt



# reviews

## Dark Colony

### FUN & GAMES

**COMPANY:** Strategic Simulations, Inc.

**CONTACT:** 800-234-3088 or 408-737-6800,

<http://www.ssionline.com>

**PRICE:** \$49.95 (SRP)

**REQUIREMENTS:** PowerPC, System 7.1 or later,

16MB of RAM, 10MB of free hard disk

space, 4 x CD-ROM drive



**UNLIKE MOST OTHER REAL-TIME** strategy games, Dark Colony doesn't let you pick the placement of your buildings. Instead they're constructed on landing pads like this one.

**A** large part of Dark Colony's appeal is sci-fi author Robert A. Heinlein's story line. Earth corporations are starting to colonize Mars when little gray guys with egg-shape heads and big round eyes start attacking. It turns out that aliens have been probing us for years and they have their sights set on taking Mars for themselves.

You can play as either the human corporation, with technologically advanced weapons and vehicles, or the Grays, mysterious aliens with biomechanical monsters, intent on wiping out the squishy humans. The campaign mode takes you across the surface of Mars to locations where, if you're playing as the human, you're assigned to root out the alien hives and fortify the corporations' hold on the planet. The aliens' objective is to kick the intruding humans off the planet. The plot leads you over various terrains, from dense jungle to clear deserts and insidiously difficult underground levels. For a quick game, you can also engage in single-level wars on more than two dozen maps.

### What It Takes to Win

**Explore quickly:** Send soldiers in all directions to locate active Petra-7 vents. Even if you can't afford to mine them, your troops can keep the vents out of enemy hands.

**Upgrade weapons:** Skimp on new buildings and units, focusing instead on weapon upgrades that'll prove decisive in the crucial early battles.

**Be aggressive:** Defense is for losers. As you fortify, the enemy is out claiming vents and building cash reserves to overwhelm you when your nearby vents give out.

**Avoid friendly fire:** When moving troops into position, get them out of the line of fire of your artillery or defensive structures.

In most ways, Dark Colony is a straightforward real-time strategy game, obviously drawing on WarCraft and Command & Conquer for play mechanics and game design. While Dark Colony's influences are obvious, the designers have changed the game enough to create a new experience, as the resource harvesting exemplifies. Dark Colony has one resource, Petra-7, which you get from vents on the planet surface. Vents divulge only a limited amount of Petra-7, and you never know when a dormant vent will become active. Another interesting twist is base construction. Both humans and Grays build on platforms that grow as they purchase upgrades. Defending the larger perimeter requires you to build additional mines and missiles. And unlike most other real-time strategy games, Dark Colony makes an important distinction between day and night, because the Grays, with their bulging eyes, are nocturnal fighters, while the humans fight better during the day.

When a game emulates such outstanding predecessors as WarCraft and Command & Conquer, it's pretty hard for it to fail. SSI has created an entertaining game with Dark Colony, and Mac gamers should have a good time repelling the alien invaders.—*Rick Sanchez*

**GOOD NEWS:** Good port from PC.

Fun game. Good plot by sci-fi author Robert A. Heinlein.

**BAD NEWS:** Little innovation. Unoriginal design.



**"Simplicity is the ideal of all logical thinking..."**

Ockham's Razor  
(William of Ockham: 1285 - 1349 AD)

Thus, given a choice between competing Web design tools, the simplest or more straightforward is to be preferred.



 **WebPainter™**

The simplest and most natural way to create graphics and animation for the Web.

**totally hip**  
Software Inc.™

**KEEP IT SIMPLE! KEEP IT NATURAL! KEEP IT TOTALLY HIP!**

<http://www.totallyhip.com>  
1-888-8THEHIP

state "Mac Addict"  
special: \$59.95



# F/A-18 Korea

## FUN & GAMES

**COMPANY:** Graphic Simulations Corporation

**CONTACT:** 972-386-7575, <http://www.graphsim.com>

**PRICE:** \$45 (street)

**REQUIREMENTS:** 100MHz PowerPC or faster, 16MB of RAM, CD-ROM drive

**T**here's a certain pleasure that comes from taking down an Su-27UB Flanker with your McDonnell Douglas F/A-18's main guns after all the air-to-air missiles are gone. The good folks at Graphic Simulations have brought this feeling to the masses with F/A-18 Korea. Based on the F/A-18 Hornet 3.0 flight simulator engine, it is, quite simply, the best combat flight simulator available for the Mac today.

F/A-18 Korea is set, as you might expect, in the Korean peninsula, where North Korea is leading a massive invasion of the South. You play an F/A-18 pilot assigned to various strike and support missions during the con-

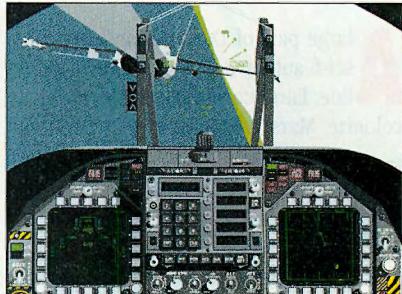
flict. The game allows for up to eight pilots, so you have at your disposal a whole squad to take on the North Koreans. It's a rich combat theater: missions range from ground strikes to air sorties; pilots can be based both at airstrips and on aircraft carriers; opponents range from the throwaway MiG-21 to the ultrasharp Su-27UB (which can carry nuclear weapons).

The flight and simulation engine is basically the same as that found in F/A-18 Hornet 3.0, which was set in the Persian Gulf during the Gulf War. Thanks to fast frame rates and a smooth simulation engine, flying the F/A-18 is a pleasure. But learning to fly is a complex undertaking, so there's plenty to sink your teeth into. The enemy artificial intelligence is sharp enough to take you out of the sky more often than not. And if the artificial intelligence isn't good enough, pilots can go head-to-head in networked games of kill everybody and bomb the flag. You must play network games, including those you play over the Internet, via an AppleTalk-based connection. You need to use something like IPRemote to mimic an AppleTalk connection over the Internet.

Even though its engine is the same as the one in Hornet 3.0, F/A-18 Korea would be worth the money if Graphic Simulations had offered only the new campaign. Instead, besides some bug fixes—the training VCR works properly now, thank you—the com-



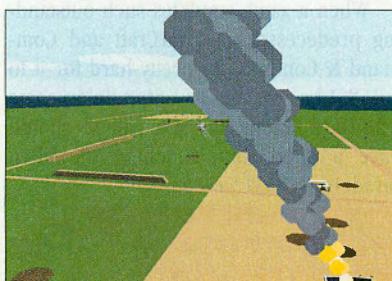
It's an honest-to-gosh screenshot with an honest-to-gosh missile launch. Of course, to get this kind of on-screen artwork, you need a 3dFX card.



Oops, isn't that a friendly aircraft spewing smoke? There goes that promotion.

pany added 3Dfx support for use with TechWorks' Power3D card. The resulting simulation is breathtaking. Also new is the mission editor. Those who don't get enough with the missions included can use the mission editor to create a virtually unlimited supply of new sorties. The editor is limited, however. Users can create only single missions, not campaigns. Also, the locations of key facilities (such as factories and rail-yards) is fixed. Finally, users must use the supplied terrain map of the Korean peninsula. Still, even with those limitations, the mission editor keeps the game lively long after you play the prepackaged conflicts.

If you like Hornet 3.0 (or any other realistic combat flight sim), you'll love F/A-18 Korea. Be warned, though: F/A-18 is tough for beginners. It takes some time to learn how to control the aircraft, and landing on an aircraft carrier at night is not for the squeamish. If you're willing to press on and learn an invaluable skill you can use next time you wake up on an aircraft carrier, consider F/A-18. It's a great flight.—David Reynolds



It's always fun to fly back by a bombed-out target after a spot-on release. Man, that's a huge smoke column.

**GOOD NEWS:** Great realism. Aircraft control is precise and challenging without being overwhelming. Lots of missions and an included mission editor.



**BAD NEWS:** Tough. Unit placement in mission editor is limited.

# Make Friends and Influence Aliens

# STAR CONTROL 3

The fabric of the universe is crumbling. It's up to you to find the answer in the unexplored reaches of the Kessari Quadrant. You're in control of a star fleet searching hundreds of planets. Can you unravel the secret to the universe's oldest and deadliest mystery?

- Pilot 24 different alien starships, use 48 unique weapons
- Manage the resources of over 30 colonies and 24 races
- Discover more than 40 ancient artifacts from an advanced technology
- Deploy your star fleet strategically for victorious Hyper Melee Combat



Negotiate critical alliances with 24 alien races



Defend your new allies and your territory in Hyper Melee Combat against the computer, or take on a friend



Build your colonies on newly discovered planets and manage their resources

800-229-2714

Call for a free catalog or visit our website at  
[www.wizworks.com](http://www.wizworks.com)

ACCOLADE®

Star Control 3 is a trademark of Accolade, Inc. ©1996, 1998 Accolade, Inc. All rights reserved. Created by Legend Entertainment and based upon characters created and used under license from Paul Reiche III and Fred Ford.

MacSoft®

2300 Berkshire Lane No., Plymouth, MN 55441 • 612-569-7600



# reviews

reviews

## That's Infotainment

### Toy Collection:Vintage Automobiles

**COMPANY:** American Eagle Entertainment

**CONTACT:** 310-451-1890,

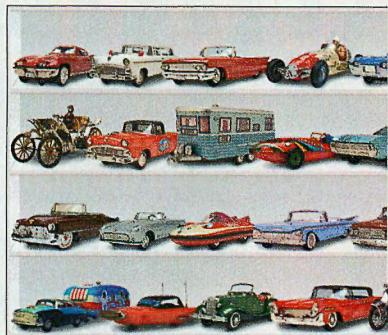
<http://www.amer-eagle.com>

**PRICE:** \$24.99 (SRP)

**REQUIREMENTS:** 68040 or faster,

System 7.5 or later, 10MB of RAM, 2x CD-ROM

drive (4x recommended), 256 colors or better  
(thousands recommended)



Pick a toy car off the shelf and go,  
baby, go!

**T**alk about your labor of love! The overweening enthusiasm of this disc's creators is infectious. The first in a planned series of CD-ROMs showcasing vintage toys, Toy Collection: Vintage Automobiles presents 20 classic cars, cycles, and assorted wheeled vehicles in full-color glory. Each toy is accompanied by a QuickTime VR object movie, a quick video clip showing it in action, images of the original packaging, and an in-depth essay on its history and features.

The multimedia features are underwhelm-

ing—teensy object movies, brief and grainy video clips. But the still photography is big and bright and appetizing, and the essays are just grand; every gimmicky feature is explained in loving detail, the fine points of the design are highlighted, and the writer raves about the strange and annoying noises each toy car produces. While the disc is presumably aimed at serious toy collectors, the

write-ups make you want to rip open that oh-so-collectible packaging and rev the shiny toy across your living room carpet.

Each vintage car has its own soundtrack, reflecting the appropriate era and mood. Admiring toy Corvettes and reading up on scale-model formula racers is just so much more *fun* with the proper musical accompaniment.—*Mark Simmons*

### You Don't Know Jack Volume 3

**COMPANY:** Berkeley Systems

**CONTACT:** 800-344-5541,

<http://www.berksys.com>

**PRICE:** \$29.99 (street)

**REQUIREMENTS:** 68040 or faster, System 7.1 or later, 9MB of RAM, 28MB of free hard disk space, 2x CD-ROM drive, 640-by-480-pixel monitor with 256 colors or better



### You Don't Know Jack TV

**COMPANY:** Berkeley Systems

**CONTACT:** 800-344-5541,

<http://www.berksys.com>

**PRICE:** \$29.99 (street)

**REQUIREMENTS:** 68040 or faster, System 7.1 or later, 9MB of RAM, 30MB of free hard disk space, 2x CD-ROM drive, 640-by-480-pixel monitor with 256 colors or better



fingers poised to tap their designated buzzer key and take a stab at the next stumper. Games can be either 7 or 21 rounds, comprising standard multiple-choice questions or such esoterica as DisOrDat and Gibberish, and culminating in the nail-biting tension of the ominous Jack Attack. The game applies snappy commentary and random abuse liberally, and plumbs the depths of your trivia knowledge (I was shocked to discover my unexpected mastery of Smurfs trivia).

Jack Volume 3, this year's installment of the general-purpose game, seems to be wearing a teensy bit thin. The category names are just a little bit more listless, the questions a tad less punch-drunk. The formula is tarted up with the obligatory new question types, such as ThreeWay Questions, but I don't care for the annoyingly unbalanced Impossible Question; nail one of these posers (I've called two out of two so far) and net \$20,000—immediately determining the outcome of the entire game.

**B**Y now, Berkeley Systems has its slap-happy desktop trivia game down to a reliable formula—obnoxious tone, punny categories, and spirited player-versus-player rivalry. But even within the formula, there's room for variance.

The basic premise of You Don't Know Jack is that of a trivia game show. One to three players gather round the warm glow of the CRT,

**Everybody's Working for the Weak End** **\$2,000**

If you wanted to celebrate TGIF by honoring Freya, the Norse goddess "Friday" was named for, how would you best spend your weekend?

1 getting married  
2 looting  
3 drinking  
4 having sex and looking fabulous

**1<sup>®</sup>** **Tweedledee** **\$1,000**

**2<sup>®</sup>** **Tweedledum** **\$3,000**

Can you believe they came up with 800 of these in each volume?

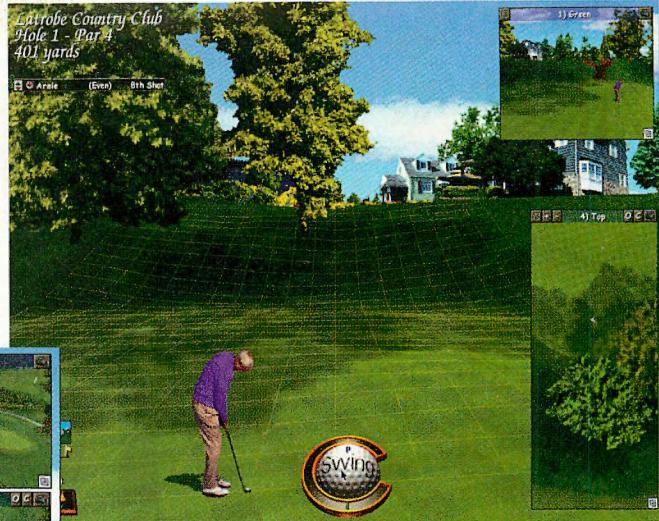
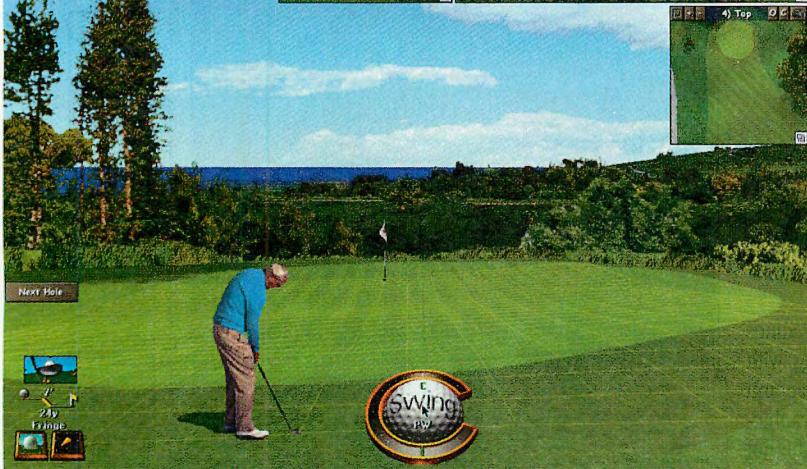
You Don't Know Jack TV, the couch-potato-oriented edition, is a better example of Jack at its finest. The design is perfect for the subject matter, and the questions are fabulously funny. Rather than relying on gimmicky new question types, they posit weird scenarios, like characters stealing monogrammed towels from rival sitcoms, and challenge you to differentiate types of chopper (Magnum, P.I.: motorcycle or helicopter?). Where the regular Volume 3 seems a little tired, the TV version is truly inspired.—*Mark Simmons*

# Links LS

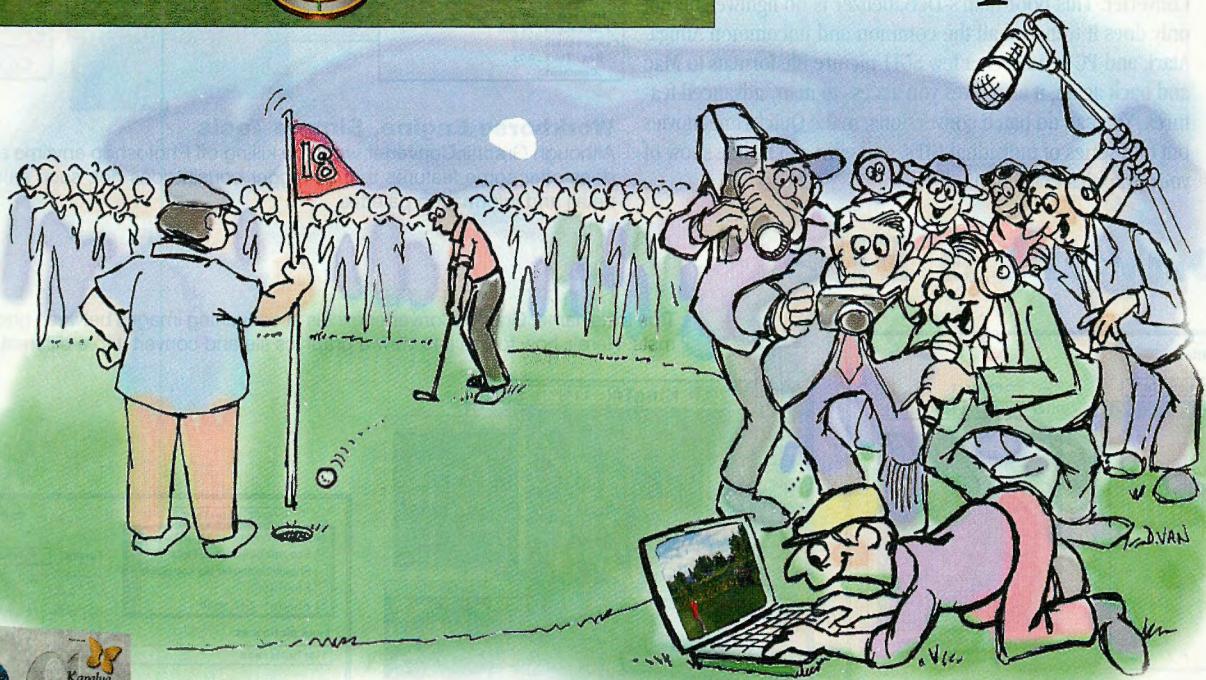
## Macintosh

Kapalua Plantation  
Hole 6 - Par 4  
398 yards

Arnie (Even) 4th shot



Real Life  
**PALES** by  
Comparison



Take a 20-minute Links® break and challenge Arnold Palmer to 18 holes on Maui's Kapalua Bay Course.

- Multiple viewing windows
- 16.7 million colors
- 4 golfers including Arnold Palmer
- Faster screen redraws
- Supports all previous LINKS courses
- Many other new features

For information on this fine product, visit us on the web at [www.AccessSoftware.com/F6L](http://www.AccessSoftware.com/F6L) or call 1-800-800-4880. And add some color to your life!

**ACCESS**  
SOFTWARE INCORPORATED



# power up

From graphics to games, everything you need to become a Mac maven!

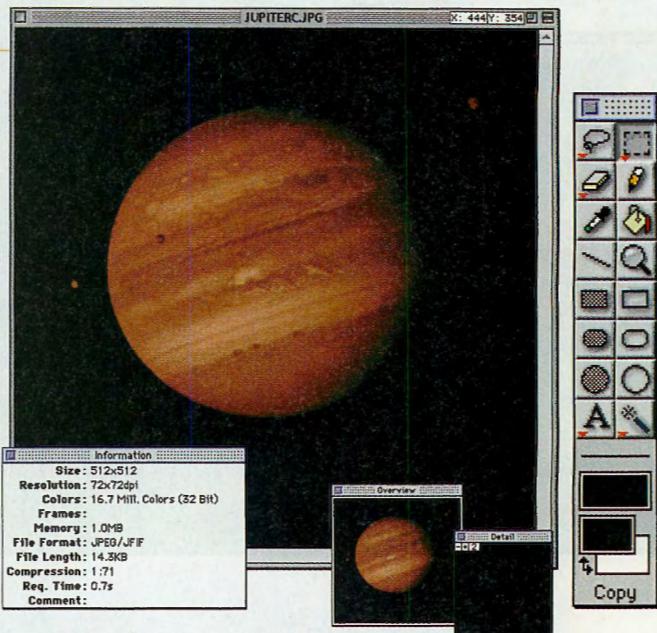
## GRAPHICS & SOUND

### Wrangle Graphics Files with GraphicConverter

by Steven Anzovin

**W**hat fresh graphics hell is this? You just downloaded a cool pic—and it's in Vitronic format. Vitronic? Never heard of it! Here's another—a 32-color Deluxe Paint IFF of King Tut from some tomb-raiding Amigahead. And what about this Dr. Halo file? (Hey, is that any name for a paint program?) How are you going to deal with that?

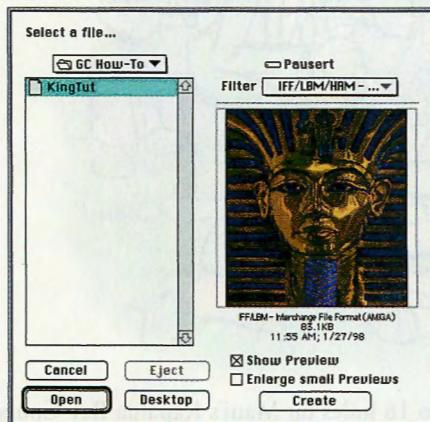
As the Web allows heretofore unthinkable crossbreedings and exo-migrations of file formats, you'll be dealing with increasingly alien graphics types. Luckily, there's a cheap and easy solution: Thorsten Lemke's shareware utility GraphicConverter. This poor-man's-DeBabelizer is no lightweight: not only does it translate all the common and uncommon Amiga, Atari, and PC (and even a few SGI) picture file formats to Mac and back again, it also gives you access to many advanced features. You can do batch conversions, make QuickTime movies out of a series of individual GIFs, and even run a slide show of your graphics collection.



### Workhorse Engine, Simple Tools

Although GraphicConverter won't be killing off Photoshop anytime soon, it does offer some features that its bigger cousin does not, such as simple detail and information palettes.

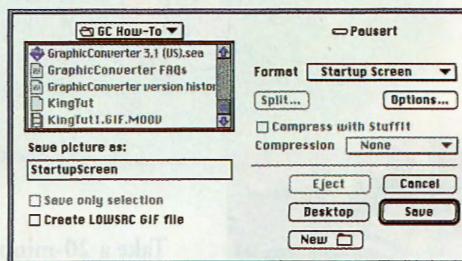
## Convert a File



**1** Choose Open from GraphicConverter's File menu. GraphicConverter shows graphics files your Mac normally shuns. Files you can view appear on the left. To see only files of a certain type (Amiga IFF/LBM, for example), choose that type from the Filter pop-up menu. If the file has a preview attached, GraphicConverter will display it, or you can make one by clicking the Create button.



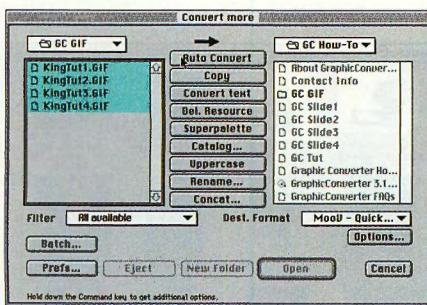
**2** Click Open. The picture appears along with various standard and not-so-standard paint tools, including the simple, interactive magnifier tool that was commonplace in Amiga paint programs 12 years ago, but that Photoshop still hasn't got. Here's your opportunity to do things like modify the color space or add text to the image. Before you convert, play with GraphicConverter's paint tools.



**3** Choose Save Picture As and select a destination file format. Forty output formats are available, many of which have special options accessible through the Options button. Click on Options and look around. Who knows—you might learn something new about your favorite file formats.

# Batch-Convert GIFs into a QuickTime Movie

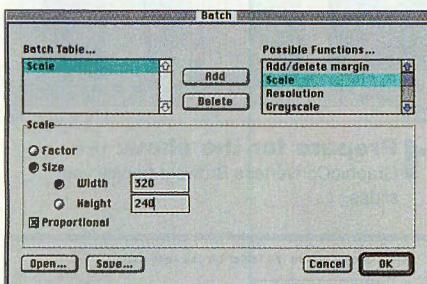
Want to make a movie out of a bunch of miscellaneous GIFs? That's a real pain to do in Adobe Premiere or After Effects, but it's simple in GraphicConverter, using batch conversion. The batch-conversion techniques described below can radically cut the time you spend changing pictures from one format to another.



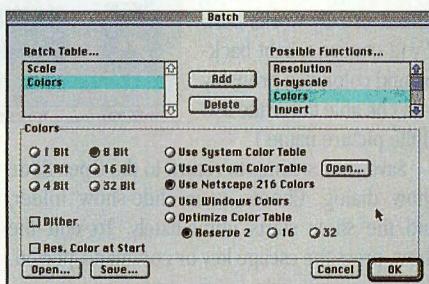
**1** Choose Convert More to see this batch-processing dialog.



**2** We used GraphicConverter's color tools to make four different versions of Tut and saved them as individual GIFs.



**3** Then we set GraphicConverter to make each pic a standard size.



**4** Finally, we set the color palette.

**1. Prepare your images.** We used GraphicConverter's color tools to make four different versions of Tut and saved them as individual GIFs. If you want your GIFs to compile in a certain order, name or number them so they'll sort properly—for example, 001 for the first picture in the movie, 002 for the second, and so forth. (Don't bother to do this if you're only translating individual graphics files from one picture format to another.) Make sure you figure out in advance all the possible conversion issues—file type, image size, palette, bit depth, resolution, alignment, rotation, brightness and contrast, number of characters in the file name, and so on—since GraphicConverter lets you deal with all of these elements automatically.

**2. Choose Convert More** from GraphicConverter's File menu, which brings up the Convert dialog. You can convert files listed on the left and batch-process them into any disc on the right. Output file formats are listed in the Dest. Format pop-up menu. Navigate until your list of GIFs is on the left, and shift-drag to select them all.

**3. What's the GIFFerence?** Let's say your GIFs aren't all the same size and don't use the same color palette. Normally that would make for a really lousy-looking movie, but with GraphicConverter it's no problem. Click the Batch button to see a dialog with a list of useful batch procedures. Choose Scale from the list and set the desired size.

## Converting Windows Files

Converting Windows graphics files for Web use? Use the Netscape 216-color palette, which uses only colors that the Mac and Windows system palettes have in common. Also, apply the Brightness/Contrast batch process to perk up Windows images, which often lose contrast when you convert them to Mac formats.

**4. Set your bit depth.** At the same time you can set a standard bit depth and specify a standard palette, which may be a custom palette you've already set up. GraphicConverter does its best to match the colors in the original GIF with the nearest colors in the new palette. A helpful feature is the Minimize Color Table batch process, which reduces the number of colors used in all pictures to a minimum.

**power up**  
**GRAPHICS & SOUND**  
Use GraphicConverter to tackle the toughest—and most boring—of graphics chores. Your life will forever change. p. 62

**FUN & GAMES**  
What makes the difference when it comes down to getting more games on the Mac? Market share. p. 66

**DEVELOPMENT**  
Use an ordinary word processor and a simple macro to automate placing tables in your Web page. p. 68

**DISK & FILE**  
You'll be amazed at what you can do with disk images. Do easy backups! Keep your data safe! And even rule the world! p. 70

**ASK US**  
Is it time to go to Mac OS 8.1? And what about that HFS+ disk format that everyone's talking about? p. 72

# GraphicConverter

## Plug-ins

**G**raphicConverter supports a plug-in API for file types it doesn't already recognize. For example, older versions of GC can't deal with Kodak's PhotoCD format without a PhotoCD plug-in. (Versions 3.1 and later don't need the plug-in to recognize PCD files.)

But—surprise! The downloadable version of GraphicConverter doesn't come with a plug-ins folder. You can make your own, but you've got to tell GraphicConverter to

recognize the new plug-ins folder and activate any plug-ins in it. Here's how:

1. Put your plug-ins into a new folder called Plug-ins.
2. In GraphicConverter, choose Preferences in the File menu. Under General, choose Plug-ins.
3. Click on Select Folder and select the Plug-ins folder.
4. Relaunch GraphicConverter.

# power up

## Run a Slide Show

power up

GraphicConverter isn't limited to its amazing batch processing and file converting abilities. You can also use GraphicConverter to create a slide show of your image collection. Just use these techniques:

Prepare a slide show folder containing all the pictures you want to display. Subfolders are OK. If you have multiple versions of a picture, use the highest-resolution version. Select Browser from GraphicConverter's File menu to see a slide-sorter view of any folder; it will help you choose material for your slide show. If you'd like to display your slides in an order other than alphabetic or by date, add a number or letter code before the file name, as described in "Batch-Convert GIFs into a QuickTime Movie."

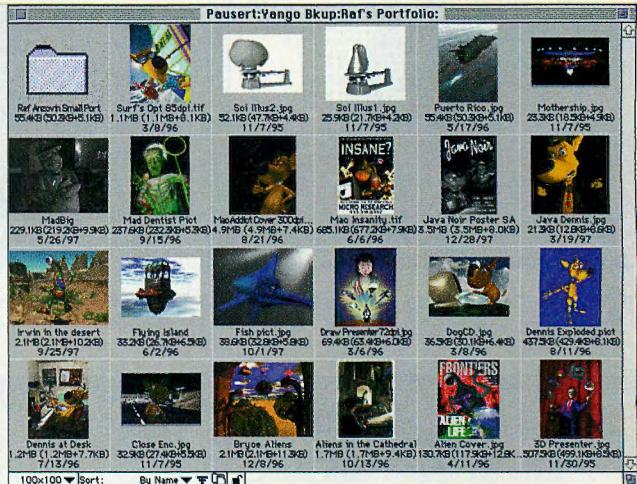
In GraphicConverter, choose Slide Show from the File menu. A dialog will ask you what folder to show. All the pictures in the folder will be displayed. Before you specify the folder, click on the Options button, which takes you to the Preferences screen that sets slide-show parameters. There are two tabs. Under the General tab, you set such things as the number of subfolders that GraphicConverter will display, the picture size, the sort order, and whether to display each picture's name. (Names display in white text at the upper left of the screen and may overlap the picture.)

In the same dialog box under the Time tab, set the slide-show timing (the default of 5 seconds per picture is about right), whether pictures should advance automatically or by clicking the mouse, and the background color. (Black usually works best; if you choose a light background color, you probably won't be able to see the text of the picture name.)

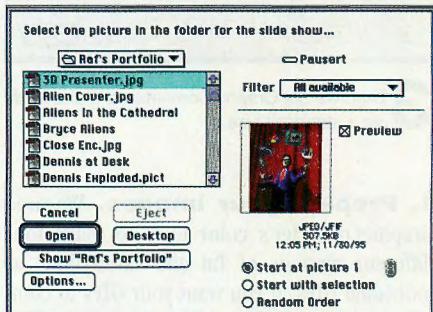
Save your settings to return to the Open Slide Show dialog. Choose your slide-show folder, and the show starts immediately. To end the show, press the escape key or command-period.

### Blow Up Little Pictures

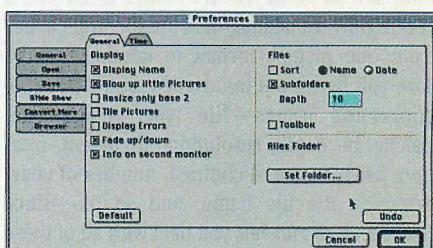
Check the Blow Up Little Pictures option in the General tab of the Slide Show Preferences dialog. This will expand smaller pictures to fill the screen in height, width, or both, giving your slide show greater visual punch.



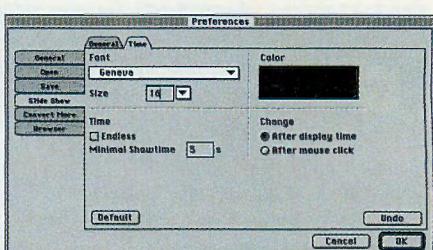
**1 Prepare for the show:** Use GraphicConverter's Browser to pick your slides.



**2 Directory assistance:** Set up and launch the slide show from this Slide Show dialog.



**3 Taking control:** Here you'll set the sorting parameters, slide size, and other options.



**4 Fine Tuning:** Set your time and color. Basic black works best for background.

## The Roll Call

Can GraphicConverter handle your unusual graphics file type? You betcha. After all, it imports about 100 file formats and exports about 40, including cryptozoic types like TRS-80 and sneakily useful ones like IFF/LBM, the old Amiga standard. Well, OK, GraphicConverter doesn't handle video conversions (between AVI and QT, for instance), but you can still gape in awe at this impressive roster:

**Imports:** PICT, Startup-Screen, MacPaint, TIFF (uncompressed, packbits, CCITT3/4, and Izw), RIFF, PICS, 8BIM, 8BPS/PSD, JPEG/JFIF, GIF, PCX/SCR, GEM-IMG/XIMG, BMP (RLE-compressed BMPs also), ICO/ICN, PIC (16 bit), FLI/FLC, TGA, MSP, PIC (PC Paint), SCX (ColoRIX), SHP, WPG, PBM/PGM/PPM, CGM (only binary), SUN, RLE, XBM, PM, IFF/LBM,

PAC, Degas, TINY, NeoChrome, PIC (Atari), SPU/SPC, GEM-Metafile, Animated NeoChrome, Imagic, ImageLab/Print Technic, HP-GL/2, FITS, SGI, DL, XWD, WMF, Scitex-CT, DCX, KONTRON, Lotus-PIC, Dr. Halo, GRP, VFF, Apple IIgs, AMBER, TRS-80, VB HB600, ppat, QDV, CLP, IPLab, SOFTIMAGE, GATAN, CVG, MSX, PNG, ART, RAW, PSON, SIXEL, PCD, ST-X, ALIAS pix, MAG, Vitronic, CAM, PORST, and VOXEL.

**Exports:** PICT, Startup-Screen, MacPaint, TIFF (uncompressed, packbits, and Izw), GIF, PCX, GEM-IMG/XIMG, BMP, IFF/LBM, TGA, PSD, JPEG/JFIF, HP-GL/2, EPSF, Movie (QuickTime), SUN, PICS, PICT in Resource, PBM /PGM/PPM, SGI, TRS-80, ppat, SOFTIMAGE, PNG, PSON, RAW, WMF, XWD, XBM, XPM, and System 7 Clip.

## Contact Info

GraphicConverter 3.1.1  
by Thorsten Lemke  
Lemke Software  
Erich-Heckel-Ring 8a  
31228 Peine, Germany

<http://www.lemkesoft.de>  
Phone: +49-5171-72200,  
+49-172-9333595  
Fax: +49-5171-72201  
\$35 shareware registration

# Mac Picasso 540

## MacPaloma

TV, Video In  
4 Channel Audio In  
Audiomixer

**\$169.95**

## MacPablo

Video Out

**\$119.95**

## MacPicasso 540

4MB, Gamma correction  
1152 x 870 in True Color  
MPEG Acceleration

**\$224.95**

Voted by MacADDICT  
May/98:



## FREAKIN' AWESOME

MacMagazin 1/98  
Germany

MacWell  
TESTSIEGER

MacWelt 4/98  
Germany

MacUser Award 1997  
UK

Mac MAGAZIN 9/98  
Germany

MacEeasy 1/97  
Germany

MacUser 2/97  
UK

MacEeasy 3/97  
UK

MacWell  
TESTSIEGER

MacUser 5/97  
Germany

MacUser 6/97  
UK

MacWell  
TESTSIEGER

MacUser 8/97  
UK

MacWorld 11/97  
France

MacWell  
TESTSIEGER

MacWell 9/98  
Germany



designed by



# VILLAGE TRONIC

## 3D Overdrive

8MB 3D memory  
3 graphics processors  
3D res. up to 1600x1200

**\$379.95**

## MP 540 & 3D Overdrive

4 processors  
12 MB

**Bundle price \$549.95**



## Other Graphic boards

|                |       |     |          |
|----------------|-------|-----|----------|
| MacPicasso 523 | PCI   | 2MB | \$99.95  |
| MacPicasso 340 | NuBus | 4MB | \$339.95 |
| MacPicasso 320 | NuBus | 2MB | \$249.95 |

«...one of the slickest pieces of  
engineering we've seen.» (MacADDICT May/98)

«The Village Tronic 540+3D Overdrive combo offer the best of 2D with the  
best of 3D. Everything is perfect or near perfect: video is fast, 3D is fast, 2D  
is fast, documentation is good, installation is easy.» (www.tikkabik.com • 3/98)

MacADDICT CD includes:  
Light Version of  
THE VILLAGE POST

- New Hardware drivers
- Product information
- Manuals
- Developer support
- detailed technical infos
- Reviews
- Shopping guide

Manufacturer:  
Village Tronic Marketing GmbH •  
Germany  
Tel.: +49 (0)5066-7013-0  
Fax: +49 (0)5066-7013-49  
e-mail: sales@village.de  
Wellweg 95 • 31157 Sarstedt  
www.villagetriconic.com

LAST MINUTE BUNDLE BY ARTIFICE  
The DesignWorkshop Classic /  
MacPicasso and 3D Overdrive  
\$599.00  
The DesignWorkshop Professional /  
MacPicasso and 3D Overdrive  
\$799.00

Software Hut Inc.  
313 Henderson Drive  
Sharon Hill, Pa. 19079  
1-800-932-6442 ORDERS  
1-610-586-5706 Fax  
1-610-586-5703 Info  
email: Village@softthut.com  
www.softthut.com/mac

Artifice, Inc.  
creative tools for spatial design  
1342 High Street Building  
Eugene, Oregon 97401  
toll free: 8002038324  
voice: 541.345.7421  
Fax: 541.345.7438  
www.artifice.com



# power up

**FUN & GAMES****An Interview with Doug Lowenstein**

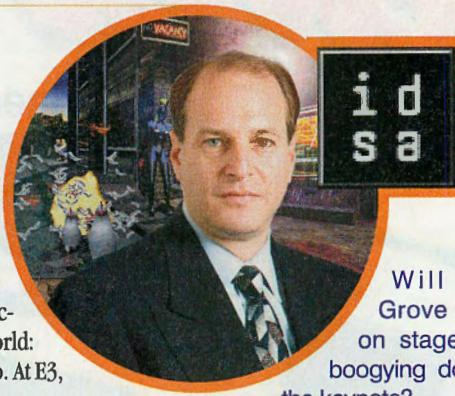
Interactive Digital Software

Association (IDSA):

<http://www.idsa.com>

by Kathy Tafel

Each spring the IDSA produces one of the most spectacular trade shows in the world: the Electronic Entertainment Expo. At E3,



Will Andy Grove be up on stage again boogying down for the keynote?

**It's all about market share.**

hardware vendors trot out their wares hoping to get developers to create games for their platforms. Game developers trot out their latest builds hoping to catch a publisher's eye. Publishers trot out their marketing materials hoping to attract retailers and the press. Everybody wants to create a buzz about their products by having the most outrageous booth design, the slickest personnel, and the most celebrity appearances (as well as, of course, a really good game underneath all the glitz).

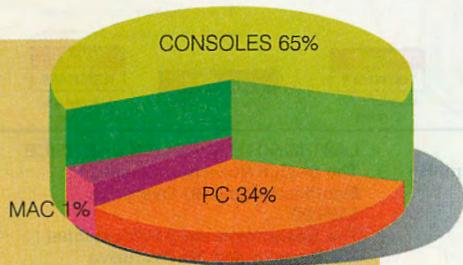
Why the hoopla? According to the IDSA, entertainment software revenues grew from \$3.7 billion in 1996 to \$5.1 billion in 1997, making it the fastest-growing segment of the entertainment industry. All the players at E3 want a piece of that pie. We thought Apple's decision not to be present at E3 last year was the height of idiocy. Setting us straight is Doug Lowenstein, president of the IDSA.

**Will E3 be as big this year as it was last year?**

Last year we took up about 535,000 square feet of the Georgia World Congress Center. This year's show should have about the same attendance: 37,000.

**Overall Entertainment Software Revenues**

Total revenues for 1997 are \$5.1 billion, according to the IDSA.



Well, Andy can come and dance if he wants to, but this year's keynote will consist of a roundtable of industry executives: Brian Fargo, founder and CEO of Interplay Productions; Pete Higgins, group VP of the Interactive Media Group at Microsoft; Kaz Hirai, executive vice president and COO of Sony Computer Entertainment America; Howard Lincoln, chairman of Nintendo of America; Sid Meier, chairman and director of creative development at Firaxis Games; and Larry Probst, chairman, president, and CEO of Electronic Arts.

**How important is it for a company to show at E3?**

To most companies, the E3 expo remains critical for evaluating future plans and technologies, as well as its being the one time of the year to meet with key decision makers. However, a company needs to evaluate its overall marketing plans to see if E3 fits in with its goals.

**Do you think that Apple's absence from E3 leads to fewer games' being released on the platform?**

Not at all. It's all about market share. Look at DVD. There aren't a lot of publishers who have put out DVD titles, because nobody's bought players yet. That will change, especially this year. Look at the next-generation consoles. That market grew from an installed base of 5.8 million units in 1996 to 16 million in 1997! Publishers need to have confidence that a market is growing. If 9 out of 10 people are buying PCs, Apple's share will continue to shrink.

**How can Apple get more games on the Mac platform?**  
Bigger market share.

**TEASERS****Tribond**

Patch Products: 608-362-6896

<http://www.patchproducts.com>

Look for a CD-ROM version of a great board game, Tribond. The basics of the game are pretty simple: figure out what three phrases have in common. For instance: Who, What, and I Don't Know are all baseball players in Abbott and Costello's classic "Who's on First" routine. The game has three main categories: Entertainment, Sports, and Academics, with a Miscellaneous category thrown in for extra spice—those questions are either



easy gimmes or stumpers. The CD-ROM version will add some extra visual clues. Hopefully, the electronic version will be as much fun as the board game, which is excellent for parties. Tribond is due out in late spring.—KT

**Redneck Rampage**

Logicware: 888-564-4245

<http://www.logicware.com>

Logicware is here to save the day! When MacPlay decided not to publish more titles, Logicware stepped in and picked up Redneck Rampage, one of last year's sillier games. Sure, it's full of mindless violence. Sure, it has little point. And, sure, it's definitely politically incorrect.



But, boy, is it funny. Leonard and Bubba blast their way through Hickston, Arkansas, to retrieve a prizewinning pig who's been abducted by aliens. On top of that surefire story line, Logicware is adding hardware acceleration through RAVE! Woo-hoo!—KT

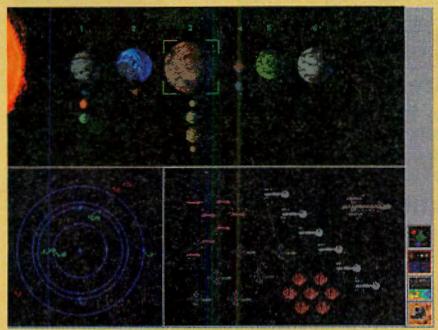
# PREVIEW

## Star Control 3

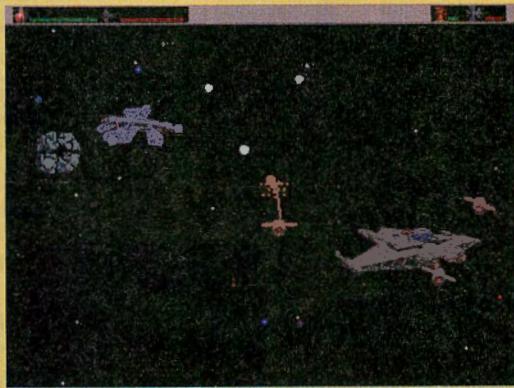
MacSoft: 800-229-2714, <http://www.wizworks.com/macsoft>

MacSoft continues its drive to be the largest Mac game publisher in the market with the April release of *Star Control 3*. The last of MacSoft's efforts in collaboration with Accolade (Jack Nicklaus 3 and *Deadlock* were the first two), *Star Control* is a solid offering in the space strategy genre. Unlike other space games such as MacSoft's own *Master of Orion II* or THQ's *Pax Imperia: Eminent Domain*, *Star Control 3* contains a unique twist: it has a plot.

You must explore a region of space, colonize it, then manage those colonies. At the same time, you engage in space combat and negotiate with various alien species for aid. As a special bonus, you can fight across a network using only the game's combat engine, all the while gathering clues to fill in the overarching story line.—KT



THE SYSTEM VIEW shows your location in the system as well as the ships in your fleet.



YOU'LL NEED TO perfect your skills against 24 alien ships.



CONVERSING WITH ALIEN races to convince them to join or assist you is an important game element. Each alien is rendered in an animatronics style, which adds a high degree of realism.

# PREVIEW

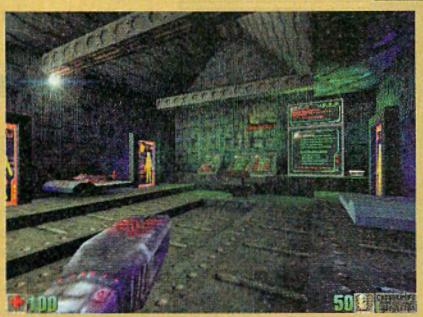
## Unreal

MacSoft: 800-229-2714, <http://www.gtinteractive.com/unreal>

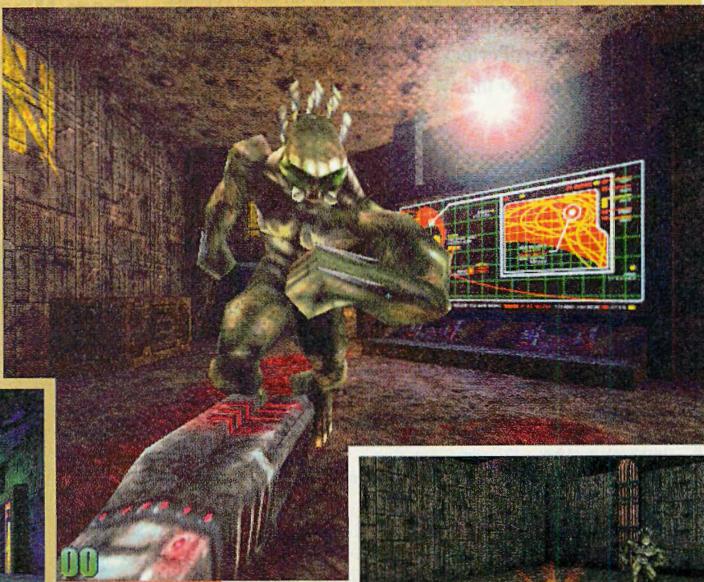
Get ready for a game that will blow you away come summer. Here's the story: you're a prisoner on a transport ship that's crashed on a planet with a high concentration of a crystal called Tarydium, which interferes with space navigation. Other alien ships have crashed on the planet, too, and they're not exactly happy. The Skaarj have taken over the entire planet and enslaved the native Nali, who will help you to secret places—but only if you don't kill them.

In our April issue, we said the game looked ugly without 3D acceleration. We were wrong; that was an early version. The game looks fine without hardware acceleration and even takes advantage of the real-time lighting effects. With acceleration, though, the game is simply stunning. Check out these pictures we took with Village Tronic's spiffy card!—KT

UNREAL'S ENVIRONMENT is so incredibly detailed you'll want to just look. But don't stand still too long, or you'll get hit! Your first mission is to escape from the transport ship.



THE SKAARJ ATTACK with painful bolts of light. You'll need to fight back with a disrupter pistol. Your weapons reflect the light in the environment, from red to blue to green.





# power up

## DEVELOPMENT

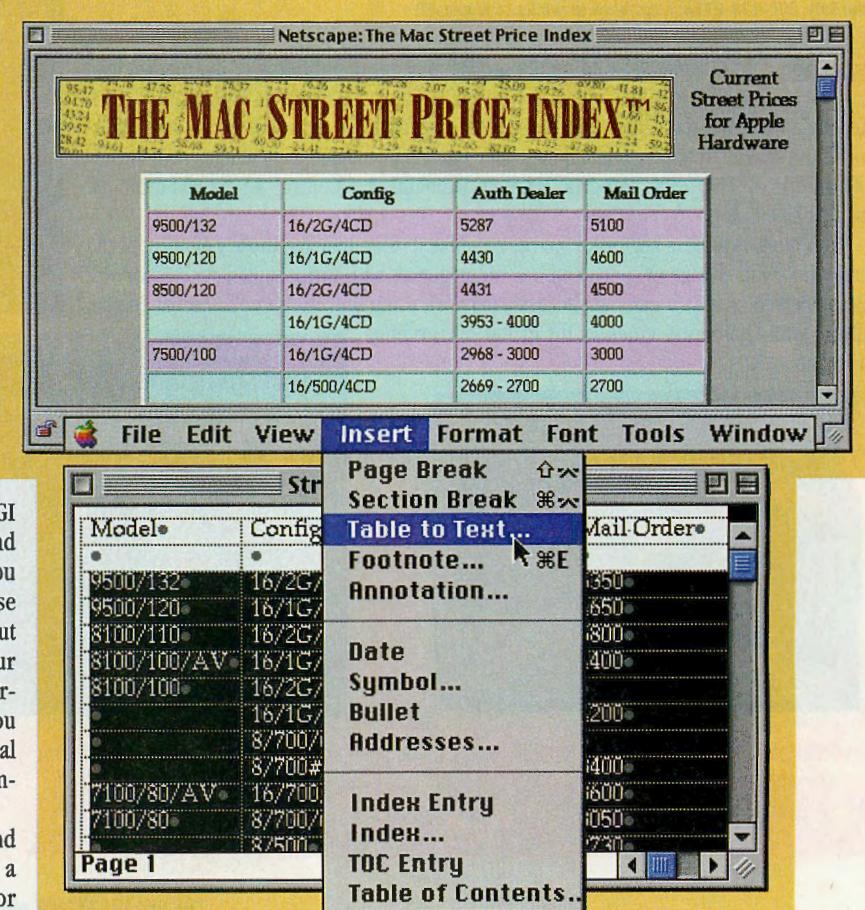
### How to Put Your Database into a Web Page Table

by Joseph O. Holmes

**B**rowsing the Web, you've probably run across sites that display massive databases of changing information in a table—typically product catalogs or spreadsheet-type data. And perhaps you're envious—you've got info that you'd put up on your page if only you could convert it to a table with ease, rather than paste data from each cell, one at a time, into PageMill.

Well, don't despair! While most large databases on the Web require CGI programming, expensive applications, and administrator access to the Web server, you can quickly and easily post your database info into a table on your Web site without any programming or special access. In our two-part series, we'll show you how to perform the whole process using software you already own, plus we'll delve into several solutions that make the process even simpler, using additional software.

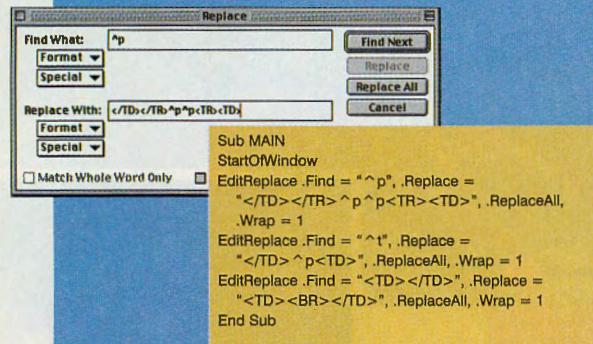
This month we'll start with the Spit and Chicken Wire Special. All you need is a macro utility like QuicKeys, OneClick, or KeyQuencer and a word processor that offers table layout and search-and-replace functions. With Word 6 or later or WordPerfect 3.5, you don't even need a macro utility!



### From Microsoft Word to an HTML Table

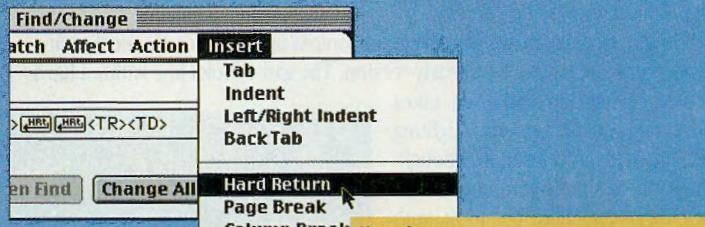
For our sample project, let's create a hypothetical Web page called The Mac Street Price Index, which displays four pieces of information—model, configuration, authorized dealer price, and mail order price—on 30 to 60 different Macintosh models and configurations. A few times a week, you update the information at home in a Microsoft Word table. Then, once a week, you post the info in a table on your Web page.

## Creating a Macro



### Word 6 Macro

If you're using Word 6 or later, use this WordBasic Macro; it's simple, foolproof, and fast. Just create a new macro by selecting Macro from Word 6's Tools menu, and type the text above into the macro's script document. You can also do a manual search and replace.



### Word Perfect 3.5 Macro

You can do the same with WordPerfect 3.5's built-in macros (under the Tools menu). Note that you have to specially select the [Hard Return] and [Tab] characters in WordPerfect's Find dialog Insert menu.

```
Home ()  
Find String ("[Hard Return]")  
Change String ("</TD></TR>[Hard Return][Hard  
Return]<TR><TD>")  
Change All  
Home ()  
Find String ("[Tab]")  
Change String ("</TD>[Hard Return]<TD>")  
Change All  
Home ()  
Find String ("<TD><TD>")  
Change String ("<TD><BR><TD>")  
Change All
```





## DISK &amp; FILE

## Need a floppy disk? Just add water.

by Buz Zoller

A disk image is a file that contains everything an original physical disk contains—an exact mirror of a physical disk. You can upload it to a BBS or the Internet, then download it and turn it back into a physical (or virtual) disk. (A virtual disk is a file that your Mac thinks is a disk, but it only acts like one.) But disk-image files on their own are of no use; you need the proper software to turn them into usable disks, either of the physical or virtual variety. Apple has used an assortment of disk-image formats over the years, each one requiring its own software to read and use these disk images. Apple's current disk-image software, included on just

about every CD the company releases, is called Disk Copy.

So why use a disk image instead of a good old floppy? Floppy disks can't hold much data, and they're prone to damage. These days most of you get your software electronically, via the Internet, often packaged as a disk image that you can turn into a real floppy or keep and use as is. About the only time floppies are necessary anymore is as a cheap way of moving small chunks of data between computers when an electronic transfer won't do. Disk images aren't limited to floppies; an entire hard drive can be compressed and converted into a single disk-image file.



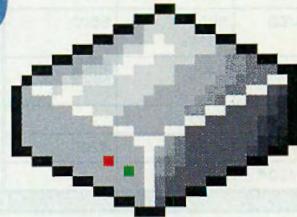
Trash

## How did disk images come about, anyway?

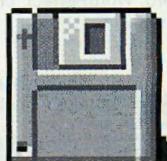
In the "old" days, computers did everything from floppy disks. Hard drives were expensive because the technology was still in its infancy (which created other problems as well). Apple IIs (and many other computers) ran off 5.25-inch floppy disks that were actually floppy! Since all software lived on floppy disks, there needed to be a way to store and

transmit these floppies electronically. As an added problem, these floppies were formatted so that just copying files to another medium didn't always work. This was the heyday of the BBS—the bulletin board system. By using a modem to dial into a BBS server, you could upload and download software from the server, which had a hard disk drive that could store

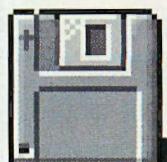
lots of files. To trade floppy disks electronically, users needed to create "virtual" floppy disks they could transmit and store electronically. These virtual floppies had to be exact duplicates, sector-for-sector, of the original. If they weren't, the disks often wouldn't work. The solution: the disk image. These files are an exact *image* of what is on the disk.



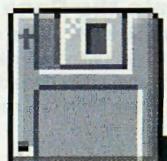
Mac HD



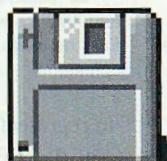
ONE



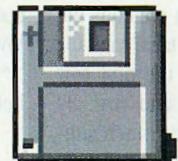
TWO



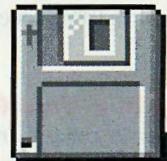
THREE



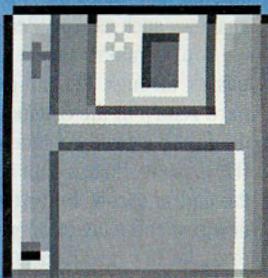
FOUR



FIVE

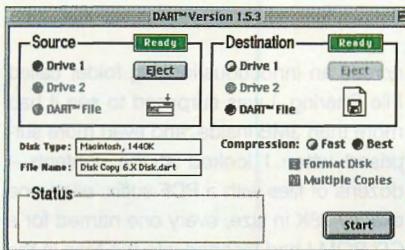


AND SO ON...



# Disk-image mania

Here's a rundown of the disk-image software Apple has used throughout the years, as well as a third-party utility that does a great job with disk images.



**DART** DART, or Disk Archive/Retrieval Tool, was Apple's original 3.5-inch floppy disk image software, used to duplicate and transmit floppy disks for the Mac, the Lisa, and Apple II. DART is now obsolete and no longer available even on Apple's software sites on the Internet.

## HOW TO USE DISK IMAGES

### Mounting disk images

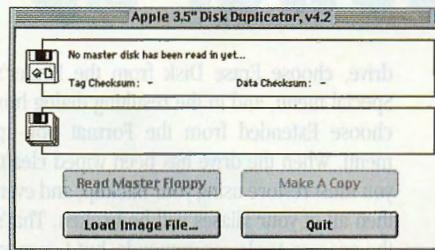
Disk images may originate with floppy disks, but most disk images are never turned into floppies because your Mac can use the images as is. So how do you turn an image into a virtual disk? When you insert a floppy disk into your Mac, an icon of the disk appears (or mounts) on the desktop. Using disk-image software, you can virtually mount your disk image in the same way; your Mac thinks there's a disk in your drive. Just drag the disk image onto the disk-image application, and it either mounts automatically or a dialog box pops up asking if you want to mount the disk. In fact, you can virtually mount lots of floppy disk images at the same time, as if you had lots of disk drives connected to your Mac.

### Creating disk images

The easiest way to create a disk image is to drag and drop the disk icon onto the Disk Copy icon. Disk images are most commonly used for backing up older software, which may be on floppies. With a disk image, your backup may outlast the original disks. I put all of my disk images from my floppy collection onto a couple of Zip disks; if I need the software, I just pop in the Zip and mount the image.

### Turning disk images into floppies

So you know how to mount disk images, but you may discover there's some software that doesn't work from a virtually mounted disk. Or maybe your Mac doesn't have a CD drive. You can turn a floppy disk image into the real thing using Apple's Disk



**Disk Copy 4.2** This version of Disk Copy has been around the longest of all. The splash screen says "Disk Duplicator," and that was Disk Copy 4.2's main purpose; Disk Copy 4.2 cannot mount image files. To create a floppy from a disk image, click on Load Image File and select your disk image.

Copy. Just launch Disk Copy, choose Make Floppy from the Utilities menu, select the disk image, and insert a floppy disk. Your Mac will handle the rest.

NOTE: Apple usually includes disk images of system software on its CDs (although Mac OS 8 shipped without these images), which gives you the option of making floppies and installing the software on a non-CD-equipped computer. The Disk Tools disk is one disk image that's always included on the CD, because every Mac can boot to the Disk Tools disk. And Disk Tools has the two Apple drive utilities—Disk First Aid and a drive formatter. If you have no other floppy disks near your Mac, you should have a couple of Disk Tools floppies. Reconstitute them from the disk image on the Mac OS CD-ROM.

### FUN WITH DISK IMAGES

#### Beyond the floppy

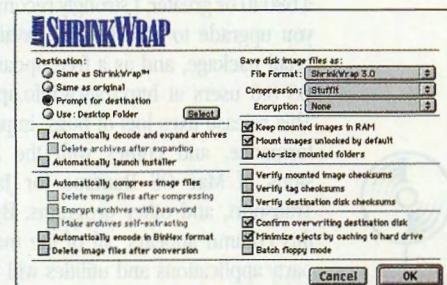
Disk images aren't just for floppies anymore. You can make an image of an entire drive or an entire drive partition—a perfect backup method if you've got the storage space. Everything remains—even invisible files such as the Desktop DB and the AppleShare PDS file, which maintains AppleShare privileges. It's also possible to create a disk image from a folder, a handy way to archive some of the files on your hard drive—the process even does compression. Just drag a folder into the Disk Copy window. The benefit of backing up files this way (instead of compressing the files and moving them to a hard drive) is that the folder simply mounts; it never has to be uncompressed. Want to make a backup of your favorite CD, just in case something happens to the original? Make a disk image of the CD. If you have a CD burner, you can even turn it back into a real CD, or just mount the image and use it as is.

### Self-mounting images

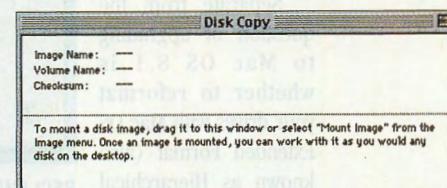
Sometimes you may run across an image file with an .smi extension, which stands for Self Mounting Image. This is a disk-image file that has the necessary code within it to mount itself, similar to .sea files, or Self Extracting Archive files. ShrinkWrap can create .smi files, which are useful for users who don't have disk-image software on their computers.



**Disk Image Mounter** This now-obsolete piece of software mounted disk-image files. It's no longer available because it's no longer needed.



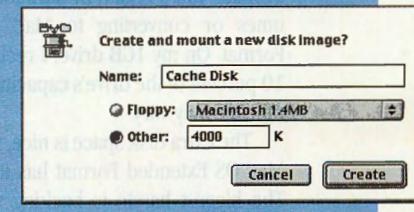
**ShrinkWrap**, acquired by Aladdin Systems, leaves Disk Copy 4.2 and Disk Image Mounter in its dust. The interface is completely drag-and-drop. And ShrinkWrap can create self-mounting images; Disk Copy cannot.



**Disk Copy 6.X** The current version of Disk Copy is 6.1.3 (available at <http://swupdates.info.apple.com>), but 6.2 is right around the corner. Disk Copy 6.X does everything that earlier software did and adds lots of cool new features. A really great, yet complex, feature of this version is the use of DiskScripts—special text files that automate what Disk Copy does with disk images.

## Cache trick

**Netscape** Use ShrinkWrap to speed up your browser. Open ShrinkWrap and select Preferences from the Edit menu. Check Keep Mounted Images In RAM and Mount Images Unlocked As Default. Then select New Image from the Image menu. Name the disk and choose a size—4MB is about right. Click the Create button and save it to your Startup Items folder. Assign it as the cache folder in your browser.





# power up

## ASK US

**We answer your technical questions, no matter how simple or complex.**

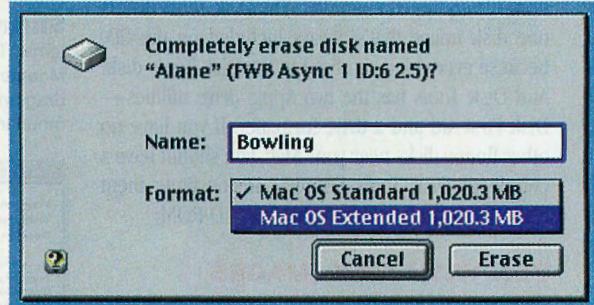
**Q** Should I upgrade to Mac OS 8.1 and Mac OS Extended Format?

**A** If your Mac has at least 12MB of RAM and a 68040 or greater, I strongly recommend that you upgrade to Mac OS 8.1 (available as a retail package, and as a free update for Mac OS 8.0 users at <http://www.info.apple.com>). This release fixes lots of bugs, improves performance, and comes with the latest versions of Mac OS Runtime for Java, Open Transport, and other programs. By the time this column appears, all of the major third-party applications and utilities will have been updated for full compatibility with Mac OS 8.1. Most of these updates will be available for free download.

Separate from the question of upgrading to Mac OS 8.1 is whether to reformat your drives with Mac OS Extended Format (also known as Hierarchical Filing System Plus, or HFS+), the major new feature in this release. This is not an easy decision to make. The main benefit of Mac OS Extended Format is that it saves space by reducing overly large minimum block sizes. Since the release of System 3.0 in 1986, all disks have been divided into approximately the same number of invisible blocks when initialized, regardless of the drive's size. The larger the drive, the larger these blocks are. Since a block can contain information about only one file, if a given file doesn't fill a block, the rest of the space is wasted. Large files span multiple blocks, but tiny files like aliases are often smaller than the blocks. Eric Bennett's MacSlack (<http://www.pobox.com/~erich/software/macslack>) determines the amount of space you'll regain by partitioning your volumes or converting to Mac OS Extended Format. On my 1GB drive, I reclaimed almost 10 percent of the drive's capacity, though your mileage may vary.

The extra disk space is nice, but moving to Mac OS Extended Format has its drawbacks. The biggest hassle is backing up the entire drive. After you've done that you select the

drive, choose Erase Disk from the Finder's Special menu, and in the resulting dialog box choose Extended from the Format pop-up menu. When the drive has been wiped clean, you must restore using your backup, and even then all of your aliases will be broken. That's the process Apple recommends, but I suggest buying PlusMaker from Alsoft (800-257-6381 or 281-353-4090, <http://www.alsoftinc.com>). This utility converts any disk larger than 8MB to Mac OS Extended Format without the hassles. It uses the smallest allocation block size possible, maintains aliases, repairs minor directory errors, and performs diagnostics to avoid data loss. Alsoft sells a companion product called PlusMaximizer, which adds a Maximized option to the Format pop-up menu in the Erase Disk dialog box. Do yourself a favor and buy the bundle for \$39.95; you'll be glad you did.



**RECLAIMING WASTED DISK SPACE** is the only reason to bother converting to Mac OS Extended Format under Mac OS 8.1.

Once you've converted a disk to Mac OS Extended Format, you can only access it with computers running Mac OS 8.1 or later, although these computers don't need a Mac OS Extended Format start-up disk. So if you take an Iomega Zip cartridge with Mac OS Extended Format to a service bureau that's still using System 7.5, all it will see is a locked volume containing a SimpleText document called "Where have all my files gone?" This file explains that the disk uses Mac OS Extended Format and can be accessed only with a computer running Mac OS 8.1 or later.

As you can see, moving to Mac OS 8.1 is a no-brainer. If you can do it, you should. But converting your disks to Mac OS Extended Format makes sense only if you are running out of disk space and MacSlack indicates that the megabytes reclaimed will be worth the hassle.

**Q** I was digging through my Preferences folder today (sorted by file size so I could toss large unused files) when I came

across an innocuous-looking folder called File Sharing. I was surprised to see it had more than 3MB inside, and even more surprised when I looked at the contents—dozens of files with a PDF suffix, each one exactly 78K in size, every one named for a CD-ROM I had inserted into the Mac in the past. I assume my Mac is keeping track of volumes for the purposes of file sharing. If I don't share CDs on my network, can I delete all these files?

**A** Yes, you can delete these, even if you do share CDs on the network; the Mac will rebuild them as needed. If you have ever activated file sharing under System 7 or later, there's likely to be tons of files inside the File Sharing folder in the Preferences folder in the System Folder. Normally, the Mac writes an invisible Parallel Data Structure file to each volume that is mounted while file sharing is on. However, in the case of write-protected or read-only volumes (such as CD-ROMs), the Mac writes visible PDF files to the start-up disk. These files are used to manage file sharing.

While you're inside the Preferences folder looking to get rid of space wasters, be sure to empty the Translated Documents folder. This contains scratch images that applications have opened using QuickTime translation.

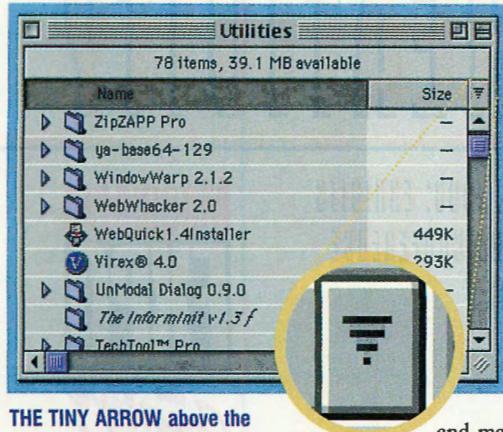
**Q** When I open one particular folder on my hard drive, its contents are reversed; ZipZapp Pro is first and Adobe is last. Everything else works fine, with items listed alphabetically from A to Z. What's causing this behavior?

**A** Open your troublesome folder and take a look at the small arrow above the tall scroll bar on the right. If it is pointing down, items in this folder—and only this folder—are sorted in descending order, or Z to A. For an ascending sort order, click the arrow so that it points up. Finder windows sort in ascending order by default, but each can have its own sort order, and you must have inadvertently changed the order while trying to use the scroll bar.

**Q** When I try to defragment my hard drive, there are always two invisible files that can't be processed because they're open: Desktop DB and Desktop DF. I assume they're important because they're invisible. What are these files?

**FIND THE SHAREWARE and freeware programs mentioned on The Disc**





THE TINY ARROW above the scroll bar determines sort order.

**A** You're right. These files are invisible for a good reason—they're vitally important. Whenever you encounter invisible files, treat them with respect and don't mess with them unless you know exactly what you're doing. Aside from the very rare virus, most invisible files are harmless and should be left alone.

The two files you've discovered are the Mac's desktop files. Every hard disk has its own pair of invisible desktop files for keeping track of files and folders on that volume. Since the desktop files are always open, they're susceptible to corruption in the event of a crash. So, if your Mac starts behaving oddly—showing generic icons for files that once had custom ones, for example—it's probably a good time to rebuild your desktop. One way to do this is to hold down command-option at start-up just before the Finder appears, then click OK in the dialog box that asks if you really want to rebuild the desktop. The problem is, this literally rebuilds the old files and may not fix the corruption. Better to use MicroMat's TechTool, which is on The Disc.

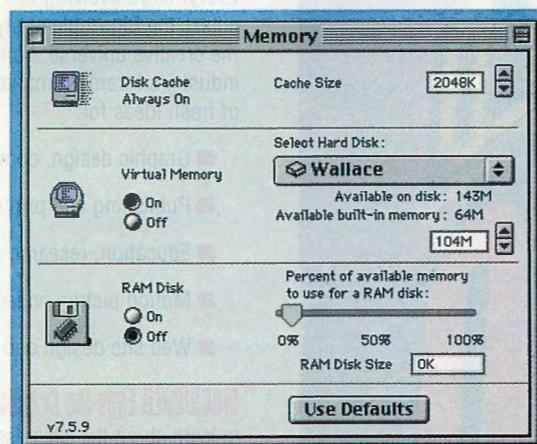
**Q** I have a PowerBook with a 1.2GB hard drive. I noticed that the size of the stuff present on my disk varies significantly (40MB or more) depending on whether I have virtual memory on or off. Is this normal? Why is my disk a yo-yo diet?

**A** Don't be alarmed. This is indeed normal. Restarting your Mac after turning on virtual memory creates an invisible file called VM Storage at the root level of the hard disk that's selected in the Memory control panel. This file's size is proportionate to the amount of vir-

tual memory you specified. While you can't see the file in the Finder (remember, it's invisible for a reason), you can see its effect on the amount of free hard disk space remaining. Turning off virtual memory deletes this file and clears the disk space it used.

Unless you *occasionally* need to run a lot of programs and your Mac balks because it's out of memory, turn virtual memory off and leave it off. It eats up hard drive space, slows down everything else, and may contribute to extension conflicts. It should be used only as a last resort. If you frequently run out of memory, invest in a few honest-to-God memory modules for your Mac. Memory has never been cheaper, and it's so much faster than virtual memory it's not even funny.

**Q** I have an Iomega Zip cartridge with a System Folder. Is there any way to boot from it without first having to boot from my hard disk, open the Startup Disk control panel, change volumes, and restart?



IN ADDITION TO SLOWING DOWN your Mac, Virtual Memory uses an invisible scratch file that consumes hard drive space.

**A** Sure thing. Holding down command-option-shift-delete at start-up tells the Mac to skip the first device in the SCSI chain (ID 0, typically the internal hard drive) and search for the next available volume with a valid System Folder, which should be your Zip cartridge if it's the only other storage device on the SCSI chain. If your default start-up disk is an external drive, there's no need to use the keyboard shortcut. Just make sure that drive is turned off at start-up. After the Mac has started from the Zip cartridge, you can turn the drive back on, although you may need to use Robert Polic's freeware SCSIProbe to get it to mount in the Finder's desktop.

**Q** When I click the Browse The Internet icon on my desktop under Mac OS 8.1, Microsoft Internet Explorer launches. I prefer Netscape Navigator. Is there any way to switch? And how do I change the default email program that launches when I click the Mail icon?

**A** Both of these desktop icons are scripts that tell the Mac to launch the default applications as specified by Internet Config. To modify what programs launch, you don't change these scripts, but rather the preferences in Internet Config. Use Find (command-F) to locate and launch the Internet Config application. In the Internet Preferences window, click Helpers. In the Helpers window is a list of applications that launch when a specific type of URL (Uniform Resource Locator) is accessed. For example, the application listed next to http is your default browser. Select it and click Change, then click Chooser Helper and specify your preferred browser. Do the same for any other helper applications, then quit Internet Config and save your changes.



JUST BECAUSE MICROSOFT PUMPED \$150 million into Apple last August doesn't mean you have to use its browser. Change Internet Config's Helpers to pick the applications you prefer.

## Remote Control Update

In the March 1998 issue I told a reader there was no way to make use of the remote control sensor on the front of a Power Mac 6500/300 short of buying an Apple TV/FM Radio System. Turns out that's not exactly true. Several readers have informed me they've discovered they can turn their Macs on and off and adjust the volume using a universal remote control configured for operating Sony televisions.

Owen W. Linzmayer (askus@macaddict.com; <http://www.netcom.com/~owenink>) is a San Francisco-based freelance writer and the author of *The Mac Bathroom Reader*. Please submit technical questions or helpful tips directly via email or c/o MacAddict, 150 North Hill Drive, Suite 40, Brisbane, CA 94005.

# SPOTLIGHT ON CREATIVITY

JULY 7, 1998: PRE-CONFERENCE WORKSHOP & KEYNOTE EVENT • JULY 8-10, 1998: EXHIBITS  
JULY 8-10, 1998: MACWORLD/PRO CONFERENCE AND MACWORLD EXPO USERS CONFERENCE  
JACOB K. JAVITS CONVENTION CENTER • NEW YORK, NEW YORK

Macworld  
**EXPO**

*the Creative  
World*

**W**ith the right tools and the right team, you can build what you can dream. Create and communicate daring new concepts. The doors are wide-open, technology is changing, and everything is possible.

**Break new ground in creativity  
in New York City**

Everything's evolving this year. MACWORLD Expo enters the Big Apple in style. Come to the center of the creative universe, home of Silicon Alley, for the industry's foremost market event. Hear hundreds of fresh ideas for:

- Graphic design, commercial art and advertising
- Publishing and printing
- Education, research and development
- Motion picture, video and multimedia production
- Web site design and navigation

**MACWORLD Expo-the Creative World** is your opportunity to learn about the latest issues and technologies in these areas, including new operating systems and cross-platform applications. Meet industry experts and make essential connections. And take away the blueprints for a creative new world.

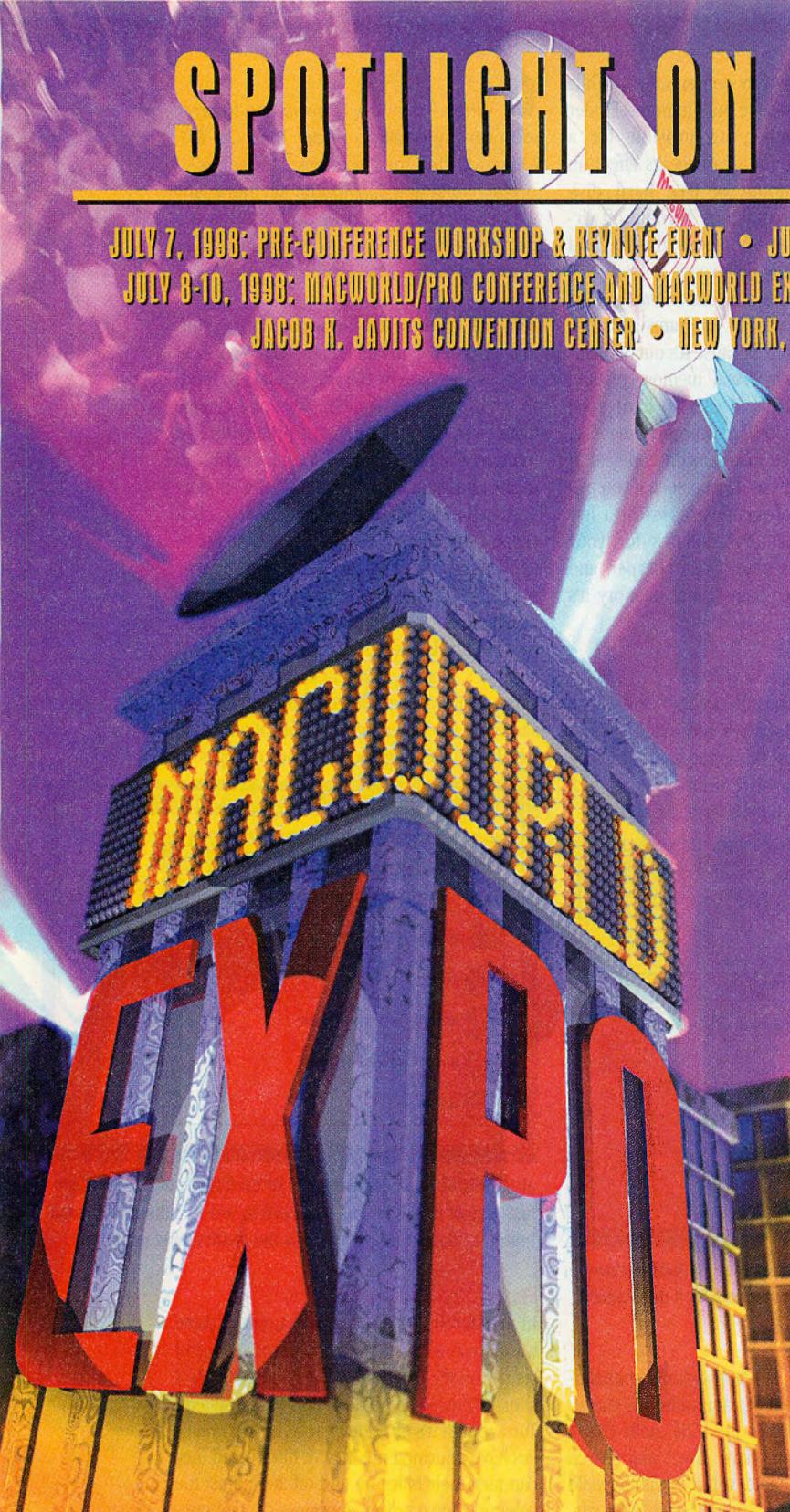
Owned by:

 **IDG**  
WORLD EXPO

Sponsored by:

**Macworld** **MacWEEK**

Managed by: IDG Expo Management Company



Act now to reserve your place at  
**MACWORLD Expo-the Creative World**

1. Visit [www.macworldexpo.com](http://www.macworldexpo.com) or

2. Call 800-645-EXPO or

3. To receive more information,  
complete the coupon on the right.

**YES!** Tell me more about MACWORLD Expo '98 in New York.

I'm interested in  Attending  Exhibiting

**ADD**

Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

Mail to: MACWORLD Expo, 1400 Providence Highway, P.O. Box 9127, Norwood, MA 02062

Fax to: 781-440-0357

**THIS IS NOT A REGISTRATION FORM**

## ADVERTISER INDEX

| ADVERTISER                          | PAGE NO. | PHONE NO.        | WEB ADDRESS  |
|-------------------------------------|----------|------------------|--|
| Access Software                     | 61       | 801-359-2900     | <a href="http://www.accesssoftware.com">www.accesssoftware.com</a>                 |
| Aladdin Systems                     | 43       | 408-761-6200     | <a href="http://www.aladdinsys.com">www.aladdinsys.com</a>                         |
| ARS Nova                            | 94       | 425-889-0927     | <a href="http://www.ars-nova.com">www.ars-nova.com</a>                             |
| Awhen                               | 94       | 888-892-9436     | <a href="http://www.awhen.com">www.awhen.com</a>                                   |
| Bungie Software                     | C4       | 312-563-6200     | <a href="http://www.bungie.com">www.bungie.com</a>                                 |
| Bungie Software                     | 56       | 312-563-6200     | <a href="http://www.bungie.com">www.bungie.com</a>                                 |
| ClubMac                             | 80-81    | 714-768-8114     | <a href="http://www.club-mac.com">www.club-mac.com</a>                             |
| Coast to Coast Memory               | 94       | 732-238-2300     | <a href="http://18004memory.com">http://18004memory.com</a>                        |
| Compu America                       | 82-83    | 310-475-6999     | <a href="http://www.compu-america.com">www.compu-america.com</a>                   |
| Compu.D                             | 89       | 818-787-3282     | <a href="http://www.compu-d.com">www.compu-d.com</a>                               |
| Compu.D (Compu Mall)                | 87       | 818-787-3282     | <a href="http://www.computerstogo.com">www.computerstogo.com</a>                   |
| Computer Discounters                | 92       | 301-595-0500     | <a href="http://www.computerdiscounters.w1.com">www.computerdiscounters.w1.com</a> |
| Computer Exch, The                  | 94       | 404-315-0897     | <a href="http://www.compexch.com">www.compexch.com</a>                             |
| Deneba Software                     | 5        | 305-596-5644     | <a href="http://www.deneba.com">www.deneba.com</a>                                 |
| DFI                                 | 92       | 800-390-7020     | —  |
| Digitek                             | 92       | 888-699-8787     | <a href="http://www.macstuff.net">www.macstuff.net</a>                             |
| DriveSavers                         | 93       | 415-883-4232     | <a href="http://www.drivesavers.com">www.drivesavers.com</a>                       |
| Earthlink                           | 47       | 626-296-2400     | <a href="http://www.earthlink.net">www.earthlink.net</a>                           |
| Eritech International               | 95       | 818-244-6242     | <a href="http://www.eritech.com">www.eritech.com</a>                               |
| Fox Interactive                     | 20       | 310-369-1712     | <a href="http://www.foxinteractive.com">www.foxinteractive.com</a>                 |
| Fox Interactive                     | 21       | 310-369-1712     | <a href="http://www.foxinteractive.com">www.foxinteractive.com</a>                 |
| FWB Software, LLC                   | 17       | 415-482-4804     | <a href="http://www.fwb.com">www.fwb.com</a>                                       |
| IDG Expos (Macworld)                | 74       |                  |  |
| Infinity Micro                      | 94       | 310-470-9426     | <a href="http://www.infinity-micro.com">www.infinity-micro.com</a>                 |
| Infowave Wi reless Messaging, Inc.  | 49       | 604-473-3660     | <a href="http://www.infowave.net">www.infowave.net</a>                             |
| InterLand Inc.                      | 45       | 404-586-9999     | <a href="http://www.interland.net">www.interland.net</a>                           |
| LA Computer Center                  | 88       | 310-479-0999     | <a href="http://www.lacc.com">www.lacc.com</a>                                     |
| Leister Productions                 | 92       | 717-697-1378     | <a href="http://www.leisterpro.com">www.leisterpro.com</a>                         |
| Mac Net                             | 90       | 305-591-4295     | <a href="http://www.applemacnet.com">www.applemacnet.com</a>                       |
| Mac Power Sales & Service           | 92       | 408-448-0474     | <a href="http://www.mac-power.com">www.mac-power.com</a>                           |
| Mac Solutions                       | 94       | 310-914-3200     | <a href="http://www.macsolutions.com">www.macsolutions.com</a>                     |
| MacMall                             | 76-77    | 310-354-5700     | <a href="http://www.macmall.com">www.macmall.com</a>                               |
| MacSales                            | 92       | 602-368-5770     | <a href="http://www.macs4sale.com">www.macs4sale.com</a>                           |
| MacSoft (a GT Interactive Company ) | 59       | 612-509-7600     | <a href="http://www.wizworks.com/macsoft">www.wizworks.com/macsoft</a>             |
| MacSoft (a GT Interactive Company ) | 51       | 612-509-7600     | <a href="http://www.wizworks.com/macsoft">www.wizworks.com/macsoft</a>             |
| MacSoft (a GT Interactive Company ) | 53       | 612-509-7600     | <a href="http://www.wizworks.com/macsoft">www.wizworks.com/macsoft</a>             |
| Mactica                             | 91       | 650-742-9782     | <a href="mailto:sales@mactica.com">sales@mactica.com</a>                           |
| MacZone                             | 84-85    | 425-430-3652     | <a href="http://www.maczone.com">www.maczone.com</a>                               |
| Media Guide                         | 95       | 303-571-1900     | <a href="http://www.mediaguide.com">www.mediaguide.com</a>                         |
| MicroMat Computer Services          | 11       | 707-837-8012     | <a href="http://www.micromat.com">www.micromat.com</a>                             |
| Mitsubishi Electronics              | 7        | 714-220-2500     | <a href="http://www.mitsubishi-display.com">www.mitsubishi-display.com</a>         |
| Newer Technology                    | C2-1     | 316-943-0222     | <a href="http://www.newertech.com">www.newertech.com</a>                           |
| Orange Micro                        | 13       | (714) 779-2772   | <a href="http://www.orangemicro.com">www.orangemicro.com</a>                       |
| Other World Computing               | 78-79    | 815-338-8658     | <a href="http://www.macsales.com">www.macsales.com</a>                             |
| Power Max                           | 86       | 503-624-1827     | <a href="http://www.powermax.com">www.powermax.com</a>                             |
| Power Media                         | on       | 503-684-8232     | <a href="http://www.powermedia.com">www.powermedia.com</a>                         |
| Power On                            | 95       | 916-652-1880     | <a href="http://www.poweron.net">www.poweron.net</a>                               |
| Power On Software, Inc.             | 55       | 612-317-0344 #15 | <a href="http://www.actionutilities.com">www.actionutilities.com</a>               |
| REAL Software                       | 93       | 512-292-9988     | <a href="http://www.realsoftware.com">www.realsoftware.com</a>                     |
| Software Architects                 | 2        | 425-487-0122     | <a href="http://www.softarch.com">www.softarch.com</a>                             |
| Techworks                           | C3       | 512-349-1576     | <a href="http://www.techworks.com">www.techworks.com</a>                           |
| Totally Hip Software                | 57       | 604-685-6525 x24 | <a href="http://www.totallyhip.com">www.totallyhip.com</a>                         |
| Village Tronic                      | 65       | ++496752963131   | <a href="http://www.villagetronic.com">www.villagetronic.com</a>                   |

### Reach more than 150,000 Mac Addicts!

Over 40% of our readers **bought a product/service** as a result of reading *MacAddict*. Be sure they see your sales message -- call today to reserve your space!

**Mac**  
**ADDICT**

**imagine**  
a new way of publishing

MacAddict  
150 North Hill Dr., #40  
Brisbane, CA 94005

TEL: 415-468-4684  
FAX: 415-468-4686  
<http://www.macaddict.com>

### ADVERTISING REPRESENTATIVES



**André Lengyel**, 516-421-2832  
National Ad Manager  
e-mail: [cslotentino@macaddict.com](mailto:cslotentino@macaddict.com)

East Coast U.S., North Central  
U.S. and Eastern Canada

**Don Kimenker**, ext. 754  
Regional Ad Manager  
e-mail: [dkimenker@macaddict.com](mailto:dkimenker@macaddict.com)

Bay Area, Northwest,  
and Western Canada

**Kevin White**, ext. 497  
Regional Ad Manager  
e-mail: [kwhite@macaddict.com](mailto:kwhite@macaddict.com)

Southwest and  
South Central U.S.

**Jana Massey**, ext. 194  
Ad Coordinator  
e-mail: [jmassey@macaddict.com](mailto:jmassey@macaddict.com)

**MACADDICT NETWORK**  
**Camilla Colegrave**, ext. 121  
Online Advertising Manager,  
e-mail: [ccolegrave@macaddict.com](mailto:ccolegrave@macaddict.com)

# As Much As \$500 IN REBATES

## GREAT MACMALL SOFTWARE DEALS!



Mac® OS 8.1 Just \$49<sup>99</sup>  
When You Purchase  
with any Version of the  
New Microsoft Office 98  
Macintosh Edition!  
#24170

Price reflects \$30 mail-in upgrade rebate for owners of Mac OS 7.6. Price before  
rebate is '79<sup>99</sup>. Promotional packing includes OS 8.0 plus 8.1 upgrade CD.

### RealPC & Stuffit Deluxe 4.5

Both for only  
**\$99<sup>99</sup>**

#25995

Create  
design and  
animate  
your own  
website!

### Website Inc.

**only \$49<sup>99</sup>**

#99189

### Virtual PC 2.0

Upgrade from 1.0 Windows  
95 or DOS Version

**NEW!**

for only  
**\$39<sup>99</sup>**

#28310



### Macromedia FreeHand 8!

Now with  
Transparency  
effects, animation  
Xtras, Freeform  
and path  
reshape tools!

**\$139<sup>99</sup>!**  
#27424

upgrade CD  
PowerMac®

**NEW!**



### Adobe Photoshop 4.0

Upgrade CD  
Mac/PPC  
**\$169<sup>99</sup>**

#84758

Order now and receive a FREE  
MacMall exclusive Strata Vision 3D  
4.01 Ask for #94362. And, when you  
order the full version of Photoshop  
you can get a FREE Adobe Photoshop  
Classroom in a Book! While supplies last.

### Norton Utilities 3.5

**\$48<sup>99</sup>!** Upgrade CD  
#15159

The Worldwide Standard for  
Mac Utilities!  
SYMANTEC.

#28828 Norton Utilities 3.5 Full Version  
w/Microsoft Office 98 purchase  
**\$48<sup>99</sup>**

### Microsoft Office 98

Mac Upgrade only

**Microsoft**  
**\$258<sup>99</sup>**  
#26155

Call regarding Special  
Offers with purchase



## PowerBook Prices Slashed up to \$1000!

### PowerBook 1400 Series Available from MacMall

#29056 PowerBook 1400cs/166MHz 603e/16MB RAM/ 1.3GB Hard Drive  
12X CD/11.3" Dual Scan display  
was \$2,299 Now \$1,749

#29063 PowerBook 1400c/166MHz 603e/16MB RAM  
2GB Hard Drive/8X CD/11.3" Active Matrix display  
was \$2,999 Now \$1,999

Up to 166MHz



## PowerBook® 3400!

PowerBook 3400c/240MHz/16MB/3GB HD  
12X CD/33.6 Modem/12.1" Active Matrix Display  
**\$4,999 - \$500 MacMall Instant Rebate**

**\$3,999!** #29060  
PowerBook® 2400c



#29062 PowerBook 2400C 180MHz/603e/16MB RAM  
1.3GB HD/10.4" Active Matrix Display  
\$1,999 - \$50 MacMall Instant Rebate Now \$1,949

Up to 240MHz

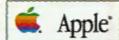


## Macintosh PowerBook G3!

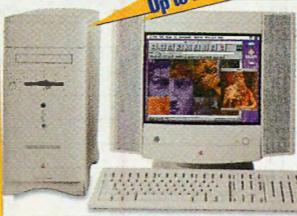
250MHz PowerPC™ G3/32MB RAM/5GB Hard Drive  
20X CD-ROM/12.1" Active Matrix Display

**\$5,699 - \$200 MacMall Instant Rebate**

**\$5,499!** #29055



Up to 275MHz  
Power Macintosh 6500!  
**Up to \$700 Price Drop on**



Power Macintosh 6500/275MHz  
603e/48MB RAM/6GB HD/24X CD  
56k Modem/Zip Drive  
MS Office 4.2.1

was \$2,699

**now \$1,399!**

#29050

Up to \$700  
Price Drop!

Up to 250MHz  
iomega® Zip® 100MB SCSI Drive!  
Includes 100MB disk  
29ms average seek time  
1.44MB/sec. max. transfer rate Mac™/PC

**\$89<sup>99</sup>**

#98023



Zip Disks as low as 19¢  
(Qty 10) after '20 rebate #88261

## Drawing Slate II 6" x 9" with Cordless Stylus

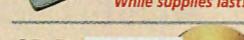
**for only \$99<sup>99</sup>**

#68230

Special  
Purchase!

While supplies last!

CalComp



## Casio QV-120 Digital Camera

**NEW LOW PRICES!**  
for only \$249<sup>99</sup>

#90543

CASIO



## CD-R Media

**50¢**  
per disc

After '20 mail-in rebate for 10-pk. Price before  
rebate is \$24<sup>99</sup>. Ask for #24561

## 12X External CD-ROM Drive

**While Supplies Last!**

SCSI Interface  
Durable external case  
1800kb/sec transfer rate

**\$119<sup>99</sup>**

#23968

## APC Back-UPS™ Office

**for only \$78<sup>99</sup>**

APC  
AMERICAN POWER CONVERSION

With '20 mail-in rebate from MacMall.

While supplies last!

We ship FedEx  
Federal Express

✓ \$1.8 Billion in Available Inventory

✓ Over 45,000 Brand-Name Products

✓ Custom Configuration

✓ Fastest Overnight Delivery

We do our best to be accurate but occasionally mistakes occur. We are not responsible for any typographical, photographic or technical errors. Products and packaging may differ from stock available at time of shipment; we reserve the right to substitute equivalent items.

# with your CPU purchase!

## Power Mac® G3!



Up to 300MHz



### Power Mac® G3!

Now \$1,699!

233MHz PowerPC® G3/32MB RAM  
4GB Hard Drive/24X CD-ROM

Also Available from MacMall

|        |   |         |
|--------|---|---------|
| #29058 | Power Macintosh G3/233MHz G3/32MB RAM/4GBHard Drive<br>24X CD-ROM/ 56K modem/ Mini Tower                | \$1,999 |
| #29053 | Power Macintosh G3/266MHz G3/32MB RAM/4GBHard Drive<br>24X CD-ROM/Zip Drive/Desktop model               | \$1,999 |
| #29054 | Power Macintosh G3/266MHz G3/32MB RAM/6GB Hard Drive<br>24X CD-ROM/ Zip Drive/Video In & Out/Mini-Tower | \$2,499 |
| #29059 | <b>NEW!</b> Power Macintosh G3/266MHz G3/128MB RAM/4GB Hard Drive<br>24X CD-ROM/100Base-T/Mini-Tower    | \$3,799 |
| #30494 | <b>NEW!</b> Power Macintosh G3/300MHz G3/64MB RAM/4GBHard Drive<br>24X CD-ROM/GMB RAM/Mini-Tower        | \$3,399 |
| #29926 | <b>NEW!</b> Power Macintosh G3/300MHz G3/128MB RAM<br>Two-4GBHard Drive/24X CD-ROM/100Base-T/Mini-Tower | \$4,899 |

### SuperMac C500/200MHz

PowerPC® 603e 16MB 2.1GB  
HD/8X CD-ROM  
only \$995!

#29078 Purchase valid 3/1/98  
thru 5/31/98.

Also Available from MacMall

|        |  |                         |
|--------|--|-------------------------|
| #29068 | UMAX SuperMac C600 vPC/240MHz 603e/32MB RAM/3.0GB Hard Drive<br>24X CD ROM Includes Insignia's Virtual PC* | Was \$1,495 Now \$1,295 |
| #29069 | UMAX SuperMac J700 233MHz 604e/24MB RAM/2 GB HD/24X CD ROM<br>33.6kbps modem/Mac DS 8                      | Was \$1,995 Now \$1,795 |

Monitors sold separately. \*Virtual PC shipped in promotional packaging.

### Memory Blowout!

Starting as low as  
\$2.44 per MB



#65416 Prices subject to change.  
Please call for most current pricing.

### Stylus Color 600 Printer

- Up to 1440 X 720dpi
- 4ppm color, 6ppm black
- Mac/PC compatible

EPSON

for only  
\$249.99 #90224



Take Advantage of this  
Special Offer: Mac OS 8 and  
a Teleport 56K Modem Both  
Only \$178! Ask for #15027



### 56K External Fax Modem

\$69.99  
for only

#30492



Price reflects \$20 mfr.  
mail-in rebate.

### Astra 610s Scanner

- 30 Bit
- 8.5" x 11.7"
- 300 x 600dpi  
(4800 max)

\$129.99  
#28523

Price reflects \$20 mfr. mail-in rebate. Expires 5/31/98

### NEW! Palm III™

- 2MB Memory
- Infrared beaming

for only  
\$399.99

#29986

MacMall Exclusive  
FREE  
Cross Pen  
w/Palm III Order

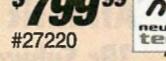


### Maxpow G3 Upgrade!

- 240MHz
- 1MB Backside cache @ 160MHz
- For 7100/8100 Series

for only

\$799.99  
#27220



### 100sx Color Display

- 15" Color display
- 13.9" Viewable image
- 1280 X 1024 max. res.
- .25mm dot pitch

\$199.99

#23973

200sx Color Display

- 17" Color display
- 15.9" Viewable image
- 1280 X 1024 max. res.
- .25mm dot pitch

(Both models are factory refurbished)

NEW LOW  
PRICES!

SONY.

\$379.99  
#23975

While supplies last

Order Any Time!  
Open 24 Hours.

# 1-800-965-3282

Order Today by 10 pm EST—Get It Tomorrow by 10:30 am.  
Check out our Web site [www.macmall.com](http://www.macmall.com)

Use Source Code:  
#ZMAD861



**Apple®  
Price Drops  
up to  
\$1,000!  
PLUS  
Save up to  
\$500!**

with MacMall Exclusive Instant Rebates  
on Apple and Umax Systems!

No Mail-in Hassles!  
No Quantity Limits!

Call your Account Representative for details.

## Three FREE Offer!

Purchase ANY item from this catalog and receive these items absolutely FREE!

### 10-pack Mac Diskettes

Ask for item  
#28803



### Marathon II: Durandal

Ask for item  
#92532



### Tripp Lite Surge Suppressor

Ask for item  
#28348



10-pack Mac Diskettes and Marathon II: Durandal are shipped in promotional packaging. You pay only \$2.99 for shipping & handling per item and \$3.99 for surge protector. These free offers apply only to legitimate paid-in-full purchases from this catalog and are not applicable to any other purchase. Good only in the U.S.; not valid with any other offer and good only while supplies last. Limit one per order. Void where prohibited.



The Mail With It All...For Less!



Other World Computing has  
Easy, Fast, Secure Internet  
Ordering Now.

# Other World Computing

SERVING THE MAC UNIVERSE SINCE 1988

Competitive Prices, Quality Products and NEVER a Surcharge for Credit Cards!



# 800-275-4576

Make Your Existing  
Mac Faster...

**Faster**

**G3**

Even Faster Than The  
Fastest New G3 Mac!



Get the full details on  
accelerating your Macintosh  
On Our Website!

[www.fastermacs.com](http://www.fastermacs.com)

## PROCESSORS

**XLR8 by Interex G3 DaugherCard**

**Upgrades** for all 7300/7500/7600/8500/9500/8600/9600,  
Umax J700 & S900, PowerComputing PowerCenter(&Pro), PowerCurve,  
PowerTower(&Pro), and PowerWave Systems.

**XLR8**

**Mach G3/220mhz** w/512k Cache 2:1 ..... \$549  
**Mach G3/233mhz** w/512k Cache 2:1 ..... \$629  
**Mach G3/266mhz** w/512k Cache 2:1 ..... \$749  
**Mach G3/300mhz** w/1mb Cache 1.33:1 ..... \$1649



Now G3 Power for the Original PowerMacs!

Call or Visit Our WebSite for NewerTech MaxPower  
G3 Upgrades available for 6100/7100/8100,  
PowerBook 1400s & Duo 2400s,  
& Most PCI PowerMacs!

**G3**

**LIMITED  
TIME** **SPECIALS!**

**SAVE**

**604&604e  
Daughtercards  
from PowerComputing**

**BIG!**

**604/150mhz** ..... \$39  
**604/180mhz** ..... \$129  
**604e/225mhz** ..... \$229

**604/150mhz** ..... \$39  
**604/180mhz** ..... \$129  
**604e/225mhz** ..... \$229

Compatible with 7300/7500/7600/8500/9500's; PowerComputing  
PowerCenter, PowerCurve, PowerTowers, and Umax 3900 & J700 computers.

**604e/180mhz** ..... \$129  
**604e/225mhz** ..... \$229

## MAC BATTERIES

**3.6v Lithium Clock/PRam Battery**  
for Mac II Series/LC II,III,400 Series/  
Quadra 475,610,660av,700,800,840av,  
Most PowerMacs. **\$9.95**

**4.5v Lithium  
Clock/PRam Battery**  
Quadra/Perfoma/LC  
630,631,635,637,  
638,640s, PowerMac  
4400s. **\$15.95**

**POWER TO PLAY**



**TECHWORKS**

**ULTIMATE  
3Dfx GAMING**

**Power3Dfx PCI  
only \$189**

Bundled with  
these awesome  
3D games:

Quake™: Episode 1  
MechWarrior® 2  
VR Soccer™  
Weekend Warrior™

Upgrade your PowerPC to a Power Arcade!

**Play "PC" 3Dfx Games on your PowerMac  
with Connectix Virtual PC!**

**Connectix Virtual PC** ..... \$149



**LOW  
PRICES  
ON  
HIGH  
SPEED MACS!**

## G3 PowerMacs

**G3/233** Desktop 32/4GB/24X/KB/Mouse ..... \$1569  
**G3/266** Desktop 32/4GB/24X/Zip/KB/Mouse ..... \$1809  
**G3/233** MiniTower 32/4GB/24X/56.6k/KB/Mse ..... \$1869  
**G3/266** MiniTower 32/6GB/24X/Zip/AV/KB/Mse ..... \$2299  
**G3/300** MiniTower ..... \$CALL

## G3 PowerBooks

Call for the New WallStreet G3 PowerBook Series

**Motorola**

**256k L2 \$15  
Cache**

**\$15**

Adding this cache to a computer without  
a functional cache installed will increase  
performance by up to 40%

**ACCELERATE  
WITH  
CONFIDENCE!**

All acceleration products  
purchased from OWC have a  
30 Day Money-Back Guarantee!

**IDT**

**1024k L2  
Cache**

**\$149**

Up to 55% Performance Boost!



## Level 2 Cache for 6100/7100/8100 & Performa 611X Series Computers

Level 2 Cache increases the efficiency of your computer by allowing  
it to keep often used instruction processes in fast cache memory.

Please note: 6100/66, 7100/80, & All 8100s included 256k L2 from Apple Factory.

**ACCELERATE  
WITH  
CONFIDENCE!**

All acceleration products  
purchased from OWC have a  
30 Day Money-Back Guarantee!

Level 2 Cache for 7200/7300/7500/7600/8500/8600,  
Certain PowerComputing & Umax Models

Please note: 7200/120, All 73/76/85/8600s include 256k L2 Cache, as well as some PowerComputing/Umax models.

256k Level 2 Cache - \$49

512k Level 2 Cache - \$79

High Speed 1024k L2 Cache - \$149

Good for up to 60mhz bus speed!

## Level 2 Cache for PowerMac & Performas 5400/5500/6360/6400/6500, StarMax Computers/clones, PowerComputing PowerBase Computers, & Umax c500/c600 Computers.

Please note: 6400/200, All 6500s, & Some PowerBase come with 256K L2 Factory Installed

512k High Performance Level 2 Cache - Up to 53% Performance Boost..... **SPECIAL \$49**

1024k High Performance Level 2 Cache - Up to 70% Performance Boost ..... **\$169**



**ULTIMATE  
SOUND**

**TOP RATED**

**Atlantic Technology MultiMedia 50 Watt  
3Pc Subwoofer / Loudspeaker System \$99**

Deep, Clean Sound for Music & Explosive Gaming ONLY

**30 DAY  
MONEY BACK  
GUARANTEE**  
ON SPEAKERS AND  
3DFX PRODUCTS

Prices, availability, and specification subject to change without notice. Items not covered by 30 Day Money  
back guarantee subject to 15% restocking fee if returned for credit. Returns for credit accepted within 30 days of purchase only.

## Other World Computing

224 West Judd St., Woodstock, IL 60098

International: (815) 338-8685

Fax: (815) 338-4332





# Other World Computing

SERVING THE MAC UNIVERSE SINCE 1988



Other World Computing has  
Easy, Fast, Secure Internet  
Ordering Now.

Competitive Prices, Quality Products and NEVER a Surcharge for Credit Cards!



**800-275-4576**

## MEMORY

OWC is an authorized Techworks Reseller

30 Day Money Back Guarantee Lifetime Replacement Warranty on all Memory

### SIMM

**72 PIN SIMMS** 2k Refresh 60/70/80ns (specify)  
for Apple LCII; Performa/LC 475,476,477,575,577,578,580;  
Centris/Quanda/Performa 605,610,630,631,635,637,638,660av,  
800,840av; PowerMac/Performa 6100,6110,6112,6115,7100, &  
8100 Series computers. Also comp. w/ Apple 610 & 6100 Dos Cards.

**4 MEG** ..... \$9    **8 MEG** ..... \$18  
**16 MEG** ..... \$31    **32 MEG** ..... \$59

**TECHWORKS**

Power To Perform™



### SIMM

**30 PIN SIMMS** for Older Macs 70 or 60ns (Specify)

**1 MEG** ..... \$9    **4 MEG** ..... \$15  
**8 MEG** ..... \$59    **16 MEG** ..... \$99

### 3.3v EDO 168 PIN DIMMS 60ns

for Motorola StarMax, APS, PowerTools Clones & Apple  
PowerMac 4400

**16 MEG** \$59    **32 MEGABYTE** ..... \$69  
**64 MEGABYTE** ..... \$119

### 5v DIMM

**5v 168 PIN DIMMS** 2K Refresh 60ns

for Apple 5400/6360/6400/7200/7300/7500/7600/  
8500/9500 & Compatible PowerComputing & Umax Computers.

**8 MEG** \$29    **16 MEGABYTE** ..... \$39  
**32 MEG** \$67    **64 MEGABYTE** ..... \$115  
**128 MEGABYTE** ..... \$469

### 5v EDO 168 PIN DIMMS 2K Refresh 60ns

for Apple 5500/6500/8600/9600, PowerComputing PowerBase,  
& Umax C500/C600 Computers. Will Also work in all machines  
utilizing non-edo 5v memory dimms except Apple 7200.

**16 MEG** \$39    **32 MEGABYTE** ..... \$63  
**64 MEG** \$109    **128 MEGABYTE** ..... \$449

## Techworks G3 SDRAM Early Spring Spectacular!

**New SDRAM Modules for all new G3 PowerMacs**

**G3 4 MEG G3 Video SGRAM** \$49 !!!!!!!

## VIDEO RAM

Video Ram Memory Upgrades

**256k** PMac 7100/Quadra 800/650 ..... \$15  
**512k** PMac 8100/Quadra's/LC's ..... \$25  
**1 MEG** PMac 72/75/76/8500 & Comp. ..... \$19  
**1 MEG** PCI Dos Card Upgrade ..... \$25  
**4 MEG** Motorola StarMax/4400 PMac ..... \$49

## STORAGE

### Internal & External SCSI Hard Drives

All hard drives ship preformatted with FWB HD Tool Kit PE 2.5 and over  
30mb's of shareware/freeware/public domain software installed. External  
Drive enclosures have a 40 Watt Universal Auto-Switching Powersupply,  
Push Button ID Selector, Dual SCSI Ports, High-Capacity UltraQuiet Cooling  
Fan, and include power cable and SCSI Cable.

FWB HD Tool Kit v2.5 Included with all Hard Drives

30 Day Money Back Guarantee Full Manufacturer Warranty



MacOS 8.1  
Compatible  
SUPPORTS HFS+

|                                  | Internal | External |
|----------------------------------|----------|----------|
| <b>IBM 2.1gb UltraStar 2ES</b>   | \$189    | \$239    |
| <b>Quantum 2.1gb Fireball SE</b> | \$199    | \$249    |
| <b>Quantum 2.2gb Atlas II</b>    | \$189    | \$239    |
| <b>Quantum 3.2gb Fireball SE</b> | \$249    | \$299    |
| <b>IBM 4.3gb UltraStar 2ES</b>   | \$289    | \$339    |
| <b>Quantum 4.3gb Fireball SE</b> | \$289    | \$339    |
| <b>Quantum 4.5gb Atlas II</b>    | \$399    | \$449    |
| <b>Quantum 6.4gb Fireball SE</b> | \$359    | \$409    |
| <b>Quantum 8.4gb Fireball SE</b> | \$459    | \$509    |
| <b>Quantum 9.1gb Atlas II</b>    | \$699    | \$749    |

### SCSI Removable Storage Devices, CD-Rom, & CD-Recordable Products

**Iomega Zip 100mb w/1 cartridge** \$149    **External** \$149  
**Zip Plus 100mb w/1 cartridge** \$189    **External** \$189

**Jaz / Zip Mounting Kit for Apple Computers** \$10 (with zip/jaz purchase)

**Iomega Jaz 1gb w/1 cartridge** \$279    **External** \$309

**Yamaha CDRW 4260** 2x ReWritable/4X CD Recordable/6X CD Reader

|                     | IOMEGA JAZ<br>2GB - CALL! |
|---------------------|---------------------------|
| <b>Internal</b>     | <b>External</b>           |
| \$149               | \$149                     |
| \$279               | \$309                     |
| <b>5.25" 1.44gb</b> | <b>5.25" 1.44gb</b>       |
| <b>5.25" 2.1gb</b>  | <b>5.25" 2.1gb</b>        |
| <b>5.25" 4.3gb</b>  | <b>5.25" 4.3gb</b>        |
| <b>5.25" 6.4gb</b>  | <b>5.25" 6.4gb</b>        |
| <b>5.25" 8.4gb</b>  | <b>5.25" 8.4gb</b>        |

**Zip 100mb Carts** \$12 ea. / **Zip 10pk** \$109 / **Jaz 1gb Carts** \$85 ea. / **Jaz 5pk** \$399

**CDR Gold Media** \$2.99 ea. / **10pk** \$24.99 / **25pk** \$49.99 / **100pk** \$179 (Includes Jewel Case)

**On Web Commerce**

Other World Computing has  
Easy, Fast, Secure Internet  
Ordering Now.

FAST!  
EASY!  
SECURE!

**owc**

**OnLine Ordering  
Is OnLine Now**

[www.macsales.com](http://www.macsales.com)

- 24HR. ONLINE ORDERING & PRODUCT INFO •
- DAILY UPDATED PRICES & SPECIALS •

**TECHWORKS**



**PowerBook  
MEMORY**

**PowerBook 3400 & G3 Models**

**32 MB** ..... \$119    **64 MB** ..... \$199  
**96 MB** ..... \$279    **128 MB** ..... \$349

**PowerBook 1400** Stackable Memory

**16 MB** ..... \$79    **24 MB** ..... \$99

**PowerBook 5300/190/500 Series** (PLEASE SPECIFY)

**16 MB** \$89    **32 MB** \$119    **48 MB** \$199

**PowerBook Duo Series Memory**

**16 MB** ..... \$99    **20 MB** ..... \$139  
**24 MB** ..... \$129    **28 MB** ..... \$149  
**32 MB** ..... \$159    **36 MB** ..... \$179  
**40 MB** ..... \$189    **48 MB** ..... \$199

\* FOR 2300 ONLY

**IDE**  
**IDE 3.5" Internal Hard Drives**

IDE 3.5" Drives for Performa/Quadra 630,5200,5300,5400,6200,6300,  
6400, & 6500 Series Computers; StarMax, APS, and PowerMac 4400 computers.

**Quantum 2.1gb Fireball SE** 5400rpm 9.5ms 3yr ..... \$159

**Quantum 3.2gb Fireball SE** 5400rpm 9.5ms 3yr ..... \$199

**Quantum 4.3gb Fireball SE** 5400rpm 9.5ms 3yr ..... \$229

**Quantum 6.4gb Fireball SE** 5400rpm 9.5ms 3yr ..... \$299

**Quantum 8.4gb Fireball SE** 5400rpm 9.5ms 3yr ..... \$399

**PowerBook STORAGE**

**New 2.5" SCSI Drives** for PowerBook 100 Series (except 150), 500 Series, Duo 210, 230, 250, 270 & 280 Computers

**SPECIAL**

**240 Mb Apple Rom IBM** 1 Year Warranty ..... \$99

**810 Mb Toshiba** 12ms SCSI 3 Year Warranty ..... \$349

**1Gb Apple SCSI** 13ms w/1 Year Warranty ..... \$299

**New 2.5" IDE Drives** for Pb150/190(cs)/5300/1400/3400

**750 Mb Apple IDE** 13ms 1 Yr **LIMITED SUPPLY!** ..... \$99

**1.2 Gb Apple IDE** 13ms 1 Year Warranty ..... \$149

**2.1 Gb Hitachi** 4436 RPM 12ms 3 Year Warranty ..... \$199

**3.0 Gb IBM** 4200 RPM 13ms 3 Year Warranty ..... \$279

**3.2 Gb Hitachi** 4436 RPM 12ms 3 Year Warranty ..... \$319

**4.0 Gb IBM** 4200 RPM 13ms 3 Year Warranty ..... \$499

**5.0 Gb IBM** 4200 RPM 13ms 3 Year Warranty ..... \$559

**Other World Computing**  
224 West Judd St., Woodstock, IL 60098  
International: (815) 338-8685  
Fax: (815) 338-4332



Prices, availability, and specification subject to change without notice. Items not covered by 30 Day Money back guarantee  
subject to 15% restocking fee if returned for credit. Returns for credit accepted within 30 days of purchase only.

# ClubMac®

IBM®

# GREAT DEALS!

ON ALL YOUR STORAGE NEEDS

Quantum

VIKING  
4.5GB

8 MS Acces  
7200 RPM  
Internal

ULTRASTAR ES  
2.1GB

512K CACHE  
5400 RPM  
Internal

ONLY  
\$179

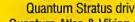
OUTSTANDING DEAL!

## HARD DRIVES

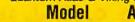
Quantum



Quantum



UltraWide SCSI-3



UltraWide SCSI-3





CALL MON-SAT 9AM-6PM PST AT 1-800-533-9005!



Check out our Web!

[WWW.COMPU-AMERICA.COM](http://WWW.COMPU-AMERICA.COM)

- Updated Daily
- Color Photos
- International Sales
- Online Ordering
- Complete Specs
- No Wait! No Hold!
- Stock/Availability
- Shipping Estimates
- Completely

10435 Santa Monica Blvd.  
Los Angeles  
CA 90025

Tel (310) 446-1771  
Fax (310) 475-7744  
email: compamer@artnet.net

Government, University and Fortune 1000 P.O.'s are welcome!  
Business Leasing is Available! International Orders Please call (310) 446-1771

### G3/266 MINITOWER

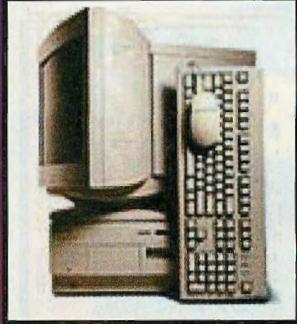


#### Features:

- 266mhz G3 Processor
- Minitower case
- 32 Meg RAM
- 6 Gig Hard Drive
- 24X CDROM
- Internal Zip Drive
- A/V In/Out

**\$2199**

### G3/233 DESKTOP



#### Features:

- 233mhz G3 Processor
- Desktop case
- 32 Meg RAM
- 4 Gig Hard Drive
- 24X CDROM
- 3 PCI Slots
- 2MB SGRAM

**\$1499**

### 4400/200 PC COMPATIBLE



#### Features:

- 200mhz 603e Processor
- Desktop Case
- 16 Meg RAM
- 2 Gig Hard Drive
- CDROM
- 166 mhz DOS Card

**\$1199**

### 5300cs/100 POWERBOOK



#### Features:

- 100mhz 603e Processor
- 16 Meg RAM
- 750MB Hard Drive
- 2 PCMCIA Slots
- 10.4" dualscan display
- Factory Refurbished

**\$799\***

We ship worldwide with:

We



All prices are cash discounted. Prices subject to change without notice. Not responsible for typos. And asterick "\*" denotes a refurbished product

## APPLE PRODUCTS

### NEW G3 POWERMACS!

|                       |                     |            |                          |                |      |
|-----------------------|---------------------|------------|--------------------------|----------------|------|
| G3/300MT              | 128/2-4GW/24X/6VR   | CALL       | G3/250                   | 32/5G/20X/56K  | 4399 |
| G3/266MT              | 128/4GW/24X/ZIP/6VR | 3199       | G3/250                   | 32/5G/20XCD    | 4199 |
| G3/266MT              | 32/6G/24X/ZIP       | 2199       | <b>POWERBOOKS</b>        |                |      |
| G3/266DT              | 32/4G/24X/ZIP       | 1699       | 3400C/240                | 16/2G/CD/MOD   | CALL |
| G3/233MT              | 32/4G/24X/MODEM     | 1699       | 3400C/240                | 16/2G/CD       | CALL |
| G3/233DT              | 32/4G/24XCD         | 1499       | 3400C/200                | 16/2G/CD/MOD   | CALL |
| <b>NEW POWERMACS!</b> |                     |            | 3400C/200                | 16/2G/CD/CD    | CALL |
| 9600/350              | 64/4G/24XCD         | 3199       | 2400C/200                | 16/2G/CD       | 1699 |
| 9600/300              | 64/4G/24XZIP        | CALL       | 1400C/166                | 16/2G/CD       | 1599 |
| 9600/300              | 64/G/24X            | CALL       | 1400C/133                | 16/1G/CD       | 1499 |
| 9600/200MP            | 32/4GIG/CD          | 2099/1999* | 1400CS/166               | 16/1G/CD       | 1499 |
| 9600/233              | 32/4GIG/CD          | 1899*      | 1400CS/133               | 16/1.3G/CD     | 1399 |
| 9600/200              | 32/4GIG/CD          | 1799*      | 5300C/100                | 16/1GIG        | 999* |
| 9600/200              | 0/0CD               | CALL       | 5300CS/100               | 16/750/MOD     | 999* |
| 8600/300              | 32/4G/24X           | 2099       | 5300CS/100               | 16/750         | 899* |
| 8600/250              | 32/4GIG/CD          | 1899       | 5300CS/100               | 8/750          | 799* |
| 8600/200              | 32/2GIG/CD          | 1799       | DUO 2300C                | 20/1.2GB/14.4  | CALL |
| 7300/PEN              | 32/2GIG/CD          | 1699       | DUO DOCK                 | 399/299*       |      |
| 7300/200              | 32/4GIG/CD          | 1399*      | <b>PERFORMAS</b>         |                |      |
| 7300/180              | 16/2GIG/CD          | 1199*      | 6400/200V                | 16/2.4G/CD     | CALL |
| 6500/300              | 64/G/24X/56K/ZIP    | 1999       | 6400/200                 | 16/2.4GIG/CD   | CALL |
| 6500/300              | 32/4G/CD/33.6F/AVID | 1499       | 6400/180                 | 16/1GIG/CD     | CALL |
| 6500/275              | 64/G/24X/56K/ZIP    | 1599       | 6320/120                 | 16/1GIG/CD     | CALL |
| 6500/250              | 32/4G/CD/HOM        | 999*       | 6300/100                 | 16/1.2G/4XCD   | CALL |
| 6500/225              | 32/3G/CD            | 899*       | 6360/160                 | 16/1.2G/8XCD   | CALL |
| 4400/200              | 16/2G/CD/KEY        | 899*       | 6220/75                  | 16/1G/CD/TV    | CALL |
| 4400/200              | 32/GIG/CD/PENT      | 1199       | 6200/75                  | 8/1GIG/4XCD    | CALL |
| 7200/120              | 16/1.2G/8XCD        | 899*       | <b>WorkGroup Servers</b> |                |      |
| 7200/120              | 16/1.2G/DOS         | 999*       | CALL FOR NEW G3 SERVERS! |                |      |
| 8500/120              | 16/2G/4XCD          | CALL       | 7350/180                 | 48/4G/CD/SHA   | CALL |
| 8500/132              | 16/1.2G/4XCD        | CALL       | 7350/180                 | 48/4G/CD/INT   | CALL |
| 8500/150              | 16/2G/8XCD          | CALL       | 7350/180                 | 48/4G/CD       | CALL |
| 8500/180              | 32/2G/8XCD          | CALL       | 9650/233                 | 64/4G/CD/SHA   | CALL |
| 9500/132              | 16/2G/8XCD/V        | CALL       | 9650/233                 | 64/4G/CD/INTER | CALL |
| 9500/150              | 16/2G/4XCD/VID      | CALL       | 9650/233                 | 64/4G/CD/DAT   | CALL |

## STORAGE AND ACCESSORIES



|                                     |     |
|-------------------------------------|-----|
| 3400 Auto Adapter                   | 69  |
| Exp. Bay Power Adapter              | 139 |
| 3400 5 Hour Battey                  | 129 |
| 1400 Zip Drive                      | 329 |
| 3400/5300/190 Zip Drive             | 329 |
| 1400 Bundle Charger/Adapter/Battery | 199 |
| 3400 Bundle Charger/Adapter/Battery | 249 |



|                         |           |
|-------------------------|-----------|
| Cheetah 4.3G SCSI/Wide  | 549/649   |
| Cheetah 9.1G SCSI/Wide  | 949/999   |
| Barracuda2.2G SCSI/Wide | 349/379   |
| Barracuda4.5G SCSI/Wide | 499/549   |
| Barracuda9.1G SCSI/Wide | 749/749   |
| Elite 23G SCSI/Wide     | 1699/1799 |



|                                   |      |
|-----------------------------------|------|
| MaxPwr G3 250                     | 749  |
| MaxPwr G3 266                     | 949  |
| MaxPwr G3 275/183                 | 1199 |
| MaxPwr G3 275/275                 | CALL |
| Bookendz 500 series               | 115  |
| Bookendz 500 series with Ethernet | 139  |
| Bookendz 5300 and 180 series      | 149  |
| Bookendz 1400 series              | 149  |
| Bookendz 3400 series              | 149  |
| NuPwr 183mhz for 1400 series      | 399  |
| NuPwr 183mhz for 500 series       | 429  |
| MaxPwr Citation 200mhz            | 339  |
| MaxPwr Citation 233mhz            | 429  |



|                                 |     |
|---------------------------------|-----|
| Global Village Plat 56K EXT     | 149 |
| Global Village Gold II PCM 14.4 | 49  |
| Global Village Gold II 14.4EXT  | 49  |
| Global Village 56.6 PCMCIA      | 249 |
| Global Village 56.6 ETH/PCM     | 349 |



|                         |     |
|-------------------------|-----|
| ARTZ II 6 X 8 W/PAINTER | 549 |
| ARTZ II 6 X 8           | 269 |
| ARTZ II 12 X 12         | 379 |
| ARTZ II 12 X 18         | 649 |

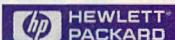


|                  |     |
|------------------|-----|
| ZIP DRIVE 100 MB | 139 |
| ZIP DRIVE PLUS   | 189 |
| JAZZ DRIVE 2 GIG | 569 |
| JAZZ DRIVE 1 GIG | 279 |
| ZIP CART 10 PACK | 109 |
| JAZZ CART        | 79  |
| IOMEGA BUZ       | 79  |



|                        |         |
|------------------------|---------|
| AtlasII 2.2G SCSI/Wide | 225/225 |
| AtlasII 4.5G SCSI/Wide | 479/499 |
| AtlasII 9.1G SCSI/Wide | 649/749 |
| Stratus 3.2G/4.3G      | 225/279 |
| Stratus 6.4G/8.4G      | 349/449 |
| EXTERNAL CASE          | 79      |

## PRINTERS AND IMAGING



|              |           |
|--------------|-----------|
| 5000N        | CALL      |
| 4000N/4000NT | 1349/1449 |
| 6MP          | 839       |
| 4MV          | 2399      |



|                              |      |
|------------------------------|------|
| GCC ELITE XL-608             | 1599 |
| GCC ELITE XL-1212            | 1299 |
| GCC ELITE XL-616             | 1899 |
| GCC ELITE XL-808             | 2899 |
| GCC ELITE XL-1208            | 2899 |
| GCC ELITR XL-1208PLATE MAKER | 3799 |



|                        |       |
|------------------------|-------|
| PHASER 350 COLOR LASER | 2999  |
| PHASER 380             | CALL  |
| PHASER 450             | CALL  |
| PHASER 480X            | CALL  |
| PHASER 560 COLOR LASER | CALL  |
| LASER 600WIDE FORMAT   | 11999 |



|                  |      |
|------------------|------|
| SCANMAKER E6     | 279  |
| SCANMAKER E6 PRO | 529  |
| SCANMAKER III    | 1229 |
| SCANMAKER V300   | 129  |
| COLOR PAGE WIZ   | 149  |



|                       |      |
|-----------------------|------|
| SNAPSCAN 310          | 179  |
| SNAPSCAN 600          | 349  |
| SNAPSCAN 600 ART LINE | 449  |
| ARCUS II SOLO         | 1299 |
| ARCUS II W/FULL PHOTO | 1499 |
| EPHOTO 1280           | 84   |

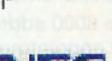


|                               |           |
|-------------------------------|-----------|
| VISTA Astra 610S-Photo Deluxe | 149       |
| VISTA Astra 1200-Photo Deluxe | 249       |
| VISTA Astra 1200-PRO          | 449       |
| VISTA Astra POWERLOOK II/III  | 1249/CALL |
| VISTA Astra POWERLOOK 3000    | CALL      |
| Mirage IISE w/Trans           | 3699      |

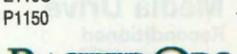
## MONITORS



|                        |             |
|------------------------|-------------|
| Q51/Q53 15"            | 229/249     |
| 15GA                   | 289         |
| E655/E641              | 249/179     |
| Q71                    | 379         |
| EAT71                  | 399         |
| G771/G773              | 449/479     |
| GT775/G790             | 579/779     |
| 17PS/17EA              | 649/579     |
| 17GS/17GA              | 549/499     |
| P775/PT775/PT771       | 549/599/599 |
| G810/P810              | 979/1099    |
| PT813/P815             | 1249/1249   |
| 29GA                   | 1699        |
| V775/V773/V655         | 489/439/239 |
| V95                    | 489         |
| OPTIQUEST Q100         | 899         |
| VIEWSONIC VWPAN VPA138 | 1299        |
| VIEWSONIC VWPAN VPA150 | 1979        |



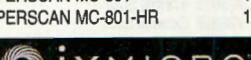
|              |      |
|--------------|------|
| NEC M500 15" | 329  |
| NEC M700 17" | 729  |
| NEC P750 17" | 779  |
| NEC E700     | 649  |
| NEC E1100    | 999  |
| NEC P1150    | 1099 |



|                     |      |
|---------------------|------|
| SUPERSCAN MC-620    | 549  |
| SUPERSCAN MC-6315   | 549  |
| SUPERSCAN MC-7515   | 849  |
| SUPERSCAN MC-20"    | 1099 |
| SUPERSCAN MC-801    | 1199 |
| SUPERSCAN MC-801-HR | 1299 |



|                         |      |
|-------------------------|------|
| PRESSVIEW 21SR          | 2699 |
| PRECISIONVIEW 21        | 1599 |
| PhotoDV PCI W/FIREWIRE  | 369  |
| Thunder Power 30/1920   | 649  |
| COLORMATCH 1920         | 2299 |
| PRECISION COLOR 24/1600 | 479  |
| VIDEO VISION STUDIO 2.0 | 2999 |
| EXTERNAL CASE           | 79   |



# The Mac Zone®

# Your Macintosh® Catalog SuperStore™

PROUDLY SERVING MAC USERS SINCE 1986

HTML file import and export for instant Web publishing!

**PageMaker 6.5 Upgrade**

ONLY \$89.98 #83068

#83067 PageMaker 6.5 Comp. Upgr. \$184.98  
#83069 Adobe PageMaker 6.5 . . . . . \$554.98

**Makes any print job worry free!**

**FLIGHTCHECK**

Special price when purchased with PageMaker 6.5 Full Version. Must be on same invoice. Low Zone price: \$398.98.

SAVE \$100 WHEN YOU BUY BOTH!

ONLY \$298.98 #77613

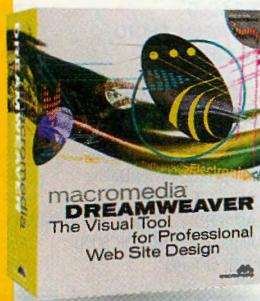
The ultimate visual tool for professional website design!

## Dreamweaver

- Roundtrip HTML™ – work in visual and HTML mode
- Create animated multimedia content without scripting
- Site-wide Content Management

ONLY \$298.98 #73486

macromedia



## #1 best-selling organizer!

### New! Palm III

with MacPac

- New design
- New infrared feature
- New easy-to-read screen
- Additional 2MB RAM
- Store 6000 addresses, 3000 appointments, 1500 to-do's and 1500 memos

ONLY \$399.98 #03858

#82099 PalmPilot Personal w/MacPac . . . . . \$199.98  
#82098 PalmPilot Pro w/MacPac . . . . . \$309.98



## Jaz 1GB Removable Media Drive Reconditioned



ONLY \$199.95 #73839

Jaz 1GB Drive ONLY

#25654 Internal SCSI \$279.95  
#25659 External SCSI \$299.95

#73839 External SCSI – Reconditioned \$199.95

### Jaz 1GB Cartridges

Item# 1-2 3-5 6+

#81235 \$124.95 \$99.95 \$89.95

## Zip 100MB Removable Media Drive

ONLY \$99.95 #55181



#52581 ZipPlus . . . . . \$199.95

#73832 Internal SCSI w/o cartridge . . . . . \$119.95

#91825 External SCSI . . . . . \$139.95

#55181 External SCSI – Reconditioned . . . . . \$99.95

Zip 100MB Disk Mac Formatted ONLY (price per cartridge)

#91160 Zip Disk – 3-Pack \$49.95 \$16.65

#32264 Zip Disk – 6-Pack with FREE Zip Caddy (Holds 6) \$89.95 \$14.99

#73829 Zip Disk – 10-Pack with FREE Z-Cube (Holds 10) \$129.95 \$13.00

## THE MAC ZONE • TRUSTED INTERNATIONALLY

Austria • Chile • Colombia • Denmark • France • Germany • Holland • Hong Kong • India • Israel • Italy • Japan • Kenya • Mexico • New Zealand • Poland • Portugal • Singapore/Malaysia • Spain • Sweden • Switzerland • UAE/Middle East • United Kingdom • Venezuela

International Sales 1-425-430-3570

More Mac-like than ever before!

**Microsoft Office 98 Macintosh Edition**

**FREE**  
Disk Drive TuneUp  
Special Edition  
with purchase of Office 98.

AS LOW AS \$259.98

## Microsoft Office 98 Macintosh Edition

Actual packaging for Tune Up may differ.

#59073 Office 98 Upgrade . . . . . \$259.98  
#59070 Office 98 Full Version . . . . . \$449.98  
**GOLD gives you FrontPage 1.0, Encarta 98 and Bookshelf 98 plus everything the standard edition includes**  
#59072 Office 98 GOLD Upgrade . . . . . \$359.98  
#59071 Office 98 GOLD Full Version . . . . . \$539.98



V.90 is the new world-wide standard for 56K modems!

## US Robotics 56K V.90 Faxmodem

- Optimized for V.90 – the new international standard for 56K modems
- Still compatible with current x2™ technology
- Perfect for high-speed Internet downloads

ONLY \$178.98 #60313



## Lowest price ever!

Drawing Slate II 4x5" and Dabbler 2.0

- Transparent tablet overlay secures artwork for tracing
- With Fractal Design Dabb the award-winning pain and draw program

ONLY \$59.98 #59802

Adobe PhotoDeluxe Included!



Mac OS 8.1 Upgrade from 7.6

ONLY \$68.98\* #60602

\* After \$30 mfr. mail-in rebate for 7.6 version owners. Low Zone price: \$98.98.

Mac OS 8.1 Upgrade from 7.6

ONLY \$68.98\* #60602

\* After \$30 mfr. mail-in rebate for 7.6 version owners. Low Zone price: \$98.98.

## UMAX Astra 1200s Scanner

ONLY \$249.98 #77119



## Norton AntiVirus 5.0 Upgrade

ONLY \$28.98 #00118

\* After \$40 mfr. mail-in rebate for upgrade/competitive/crossgrade. Zone price: \$68.98. Offer good 4/16/98 - 8/31/98. Limit one per

Copyright © 1998

The Mac Zone® is a registered trademark of Multiple Zones International, Inc. All rights reserved.

## SPECIALIZED SERVICE

Corporate Sales 1-800-258-0882

Government Sales 1-800-372-9663

Education Sales 1-800-381-9663



## We Carry the Full Line of Apple® Macintosh® Computers

- Over 6000 Products to Choose From!
- Cool Bundles and Hot Specials!
- Low Prices Everyday!
- Overnight Delivery only \$3 (up to 2 lbs)

we're open  
**24** hours a day  
**7** days a week

**CALL FOR  
YOUR FREE  
CATALOG!**



**ONLY  
\$1749**  
#77048

Great prices on  
PowerBook 1400cs  
while supplies last!

Apple® PowerBook®  
1400cs/166MHz

- 166MHz PowerPC™ 603e processor
- 16MB RAM, exp. to 64MB
- 1.3GB hard drive
- 11.3" dual-scan SVGA display
- 12X CD-ROM drive

75693 Apple PowerBook 1400C/166MHz ..... \$1999

3 power combined  
with expansion options  
and a 2-year warranty!

MAX S900 Tower  
with Newer Technology  
MAXpower G3/275 Upgrade Card

000 Tower

5 PCI slots

2.1GB SCSI hard drive;  
512K Level 2 cache

32MB interleaved RAM,  
expandable to 1GB



Monitor sold separately.  
**Upgrade Card**

- 275 MHz G3
- 1MB backside cache at 183 MHz

**ONLY  
\$2999**  
#60423

Print everything from postcards  
to posters in photo-quality color!

HP DeskJet  
120Cse  
Printer  
with PowerPrint

Print on any  
size media from  
6x6 inches to 13x19 inches

HP PhotoREt II delivers  
the smallest ink drops  
for vibrant colors



**ONLY  
\$589.98**  
#57715

Crisp images and  
superb graphics!

ViewSonic E771  
17" Monitor

- 16" viewable area
- .27mm dot pitch
- 1280x1024 maximum resolution

**ONLY  
\$379.98**  
#76501



**NEW!  
Great Low  
Price!**

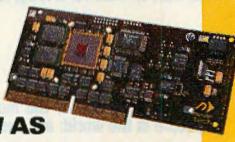
Own the upgrade card that won  
"Best of Show"  
at Macworld '98!

MAXpower G3  
PowerPC  
Processor

**AS LOW AS  
\$499.98**

| Description  | G3 Speed | Cache | Cache Speed | Item # | ONLY     |
|--|----------|-------|-------------|--------|----------|
| Power Mac 61xx & Work Group Server 61xx, Performa 61xx | 210MHz   | 512K  | 105MHz      | #60415 | \$499.98 |
| Power Mac 7100, PowerMac 81xx                          | 240MHz   | 1MB   | 120MHz      | #60418 | \$799.98 |

PLEASE CALL FOR ADDITIONAL G3 PROCESSOR UPGRADES  
AND SYSTEM COMPATIBILITIES!



## Save up to 50% on memory

with these Office 98 Mac Edition or  
Office 98 Mac Edition GOLD Memory Bundles!\*

**PNY**  
TECHNOLOGIES



| Computer              | Viking Memory Upgrade                            | MAC Edition Bundle* | ONLY                 | MAC Edition GOLD Bundle* | ONLY                 |
|-----------------------|--|---------------------|----------------------|--------------------------|----------------------|
| G3 Minitower, Desktop | 16MB SDRAM 100MHz 3.3V<br>32MB SDRAM 100MHz 3.3V | #59055<br>#59056    | \$357.98<br>\$401.98 | #59061<br>#59062         | \$457.98<br>\$501.98 |
| G3 PowerBook          | 16MB PowerBook Upgrade<br>32MB PowerBook Upgrade | #59057<br>#59058    | \$341.98<br>\$401.98 | #59063<br>#59064         | \$441.98<br>\$501.98 |
| PowerBook 1400        | 16MB PowerBook Upgrade<br>24MB PowerBook Upgrade | #59059<br>#59060    | \$346.98<br>\$377.98 | #59065<br>#59066         | \$446.98<br>\$477.98 |

\* Special Bundles for version upgraders only. Proof of previous version ownership required.

**CALL US TOLL-FREE!**  
**FAX** your order to 425-430-3500  
Shop online at  
[www.maczone.com](http://www.maczone.com)

SOURCE CODE  
**MA806**

**1-800-304-0286**

A NASDAQ® COMPANY Ticker Symbol: MZON



# CALL THE MAC EXPERTS!

Your one-stop source for everything Macintosh. Complete solutions and expert advice our specialty!  
Call for the absolute lowest prices and immediate delivery on over 20,000 Mac products!

## Us

- Our salespeople are some of the most knowledgeable in the business. They're not order takers and they don't push for a one time sale. After all, over half our business comes from repeat and referred customers!
- We have competitive prices on over 20,000 Macintosh items.
- We load over 160 megabytes of useful software on every computer.
- Every Mac system is thoroughly bench tested, and then personally verified and approved by your specific consultant.
- We have 800 line tech support for as long as you own your computer.
- We will customize your computer any way you need, and always with an exact description as to what we're including.
- We give you a free mouse pad with every system.
- We have no voice mail- there's always a human being on the other end of the line- for tech, sales and management.
- We answer the phone: "how can we help you?" not "may I take your order?"
- We live in Oregon, where there is no sales tax and the people are friendly and polite!
- Even customized systems usually ship within 24-48 hours.
- We usually approve government and corporate purchase orders the same day.
- We take trade-ins, and we sell every type of quality Macintosh possible.
- All we do is Macintosh- our company is run entirely on Macs.

## Them

- They sell you a box.
- If you have a problem, they tell you to call the manufacturer. And then you get to wait on hold for a long, long time.

## You

- Potentially one of the most important people in the world: our customer.



All in one!

Save on complete packages!



G3 for less!

### Package G3A986

Factory Refurbished Performa 5400/180 w/32 Mb RAM, 1.2 Gb hard drive, built-in 15" color display, Mac CD bundle with Atlas, games, dictionaries & many more. Only \$1188, or just \$48 per mo!\*



200 MHz!

Pictures may not match monitor in package

### Package G3A986

PowerMac G3 233 desktop, 32 mb RAM, 4 Gb Drive, 24x CD, 15" Color Display, deluxe APC surge protector. Only \$1888, or just \$76 per month!



6 Slot G3!

### Package PBA986

Factory Refurbished PowerBase 200 with 32 Mb of Mac RAM, 2 Gig hard drive, 12x CD Rom, 15" Color Monitor. All this for only \$1148, or just \$45 per month!\*



604 Blowout!

\*Only while supplies last

### Package SMA986

Factory Refurbished Motorola StarMax 604e 200MHz 6230 w/32 Mb RAM, 1.2 gig drive, 15" color display, Apple Color StyleWriter 1500. Only \$1248, or just \$50 per month!\*



G3 300!

### Package S9A986

SuperMac S900 w/ 250MHz G3, 96 Mb RAM, 4 gig fast/wide drive, 24x CD, 17" color display and an internal 1 Gb Jaz drive. Only \$3288, or just \$125 per month!



### Package G6A984

PowerMac G3 Tower: 300 MHz w/96 Mb RAM, 4 gig drive, 24x CD, internal Zip drive, 17" color display, Microsoft Office 4.2.1 CD, deluxe APC surge protector. Only \$3988, or just \$152 per month!

Trade Up  
with PowerMax!

## POWERMAX HARD DRIVE BLOWOUT!

You won't find better prices on complete external subsystems of this quality! Also call for a quote on our super-fast custom arrays!

Internal      External

|                     |       |       |       |        |
|---------------------|-------|-------|-------|--------|
| Two Gigabyte 5400   | ..... | \$169 | ..... | \$219  |
| Four Gigabyte 5400  | ..... | \$239 | ..... | \$299  |
| Four Gigabyte 7200  | ..... | \$349 | ..... | \$419  |
| Nine Gigabyte 10000 | ..... | \$999 | ..... | \$1088 |
| Jaz Drive w/cart    | ..... | \$279 | ..... | \$289  |

We'll take your Macintosh computer in trade toward the purchase of any product we sell! Call one of our expert system designers for complete details!

Or accelerate your Mac with one of our many upgrades!

MaxPow G3 220MHz w/512 Cache/110 ..... \$649  
MaxPow G3 250MHz w/512 Cache/125 ..... \$749  
MaxPow G3 275MHz w/1 Mb Cache/183 ..... \$1199  
MaxPow G3 300MHz w/1 Mb Cache/150 ..... \$1549

200 MHz Upgrade Boards- only \$219!  
233 MHz Upgrade Boards- only \$299!

 newertechology

4 Gigabytes for only \$299!

Prices only while supplies last!



We can build you a complete system for under \$700!

### Customizable G3 Systems

|                         |       |        |       |                             |
|-------------------------|-------|--------|-------|-----------------------------|
| G3 233 32/24x CD        | ..... | \$1499 | ..... | \$849                       |
| G3 233 Tower 32/24x/56k | ..... | \$1788 | ..... | \$949                       |
| G3 266 32/24x CD/Zip    | ..... | \$1788 | ..... | \$960/300 64 Ram/24x/Zip    |
| G3 Twr 266 32/24x/Zip   | ..... | \$2199 | ..... | \$2948                      |
| G3 Twr 300 64/24x       | ..... | \$3149 | ..... | Powerbooks- your #1 source! |

### Pre-Packaged G3 Systems

|                              |       |        |       |                         |
|------------------------------|-------|--------|-------|-------------------------|
| G3 233 32/4000/24x CD        | ..... | \$1599 | ..... | \$849                   |
| G3 233 Tower 32/4000/24x/56k | ..... | \$1888 | ..... | Powerbook 5300CS 8/750  |
| G3 266 32/4000/24x CD/Zip    | ..... | \$1888 | ..... | \$1588                  |
| G3 Twr 266 32/6000/24x/Zip   | ..... | \$2349 | ..... | 1400CS/133 16/1.3/8x CD |
| G3 Twr 300 64/4000/24x       | ..... | \$3249 | ..... | 1400CS/166 16/2 Gb/CD   |

### Apple Factory Refurbished

|                         |       |       |       |                           |
|-------------------------|-------|-------|-------|---------------------------|
| 6100/60 8/250/CD        | ..... | \$469 | ..... | \$1649                    |
| 6100/66 16/500/CD w/Dos | ..... | \$549 | ..... | Powerbase 200 16/2 Gb/12x |
| 6200/75 8/Gig/CD        | ..... | \$569 | ..... | \$849                     |
| 6230/75 16/Gig/CD       | ..... | \$645 | ..... | Powerbase 200 16/2 Gb/12x |
| 6300/100 16/1.2/CD      | ..... | \$688 | ..... | \$988                     |
| 4400/200 32/2 Gb/CD     | ..... | \$788 | ..... | Powercenter 150 32/1 Gb   |
| 5200/75 8/500/CD w/15"  | ..... | \$799 | ..... | \$999                     |
| 5215/75 8/Gig/CD w/15"  | ..... | \$859 | ..... | Powercenter 180 32/1 Gb   |

### Factory Refurb. Compatibles

|                             |       |        |       |                             |
|-----------------------------|-------|--------|-------|-----------------------------|
| StarMax 4000/200 16/1.2     | ..... | \$849  | ..... | \$1649                      |
| Powerbase 200 16/2 Gb/12x   | ..... | \$849  | ..... | Powerbase 200 16/2 Gb/12x   |
| Powerbase 200 16/2 Gb Twr   | ..... | \$869  | ..... | Powerbase 200 16/2 Gb/12x   |
| Powerbase 240 16/2 Gb/12x   | ..... | \$888  | ..... | Powerbase 240 16/2 Gb/12x   |
| Powercenter 150 32/1 Gb     | ..... | \$999  | ..... | Powercenter 150 32/1 Gb     |
| Powercenter Pro 180 32/2 Gb | ..... | \$1049 | ..... | Powercenter Pro 180 32/2 Gb |
| Powercenter Pro 240 64/2 Gb | ..... | \$1649 | ..... | Powercenter Pro 240 64/2 Gb |
| Powercenter Pro 225 64/2 Gb | ..... | \$1948 | ..... | Powercenter Pro 225 64/2 Gb |

### SUPERMAC- NEW LOW PRICES!

6360/160 16/1.2/8x CD ..... \$769  
7200/120 16/1.2/8x CD ..... \$849

6400/180 16/1.6/8x CD ..... \$929  
6400/200 16/1.6/8x CD ..... \$979

6400/200 Avi/Video Editing ..... \$1099  
5400/180 16/1.2/8x CD ..... \$1188

5400/200 16/1.2/8x CD ..... \$1199  
6500/300 64/4000/12x ..... \$1449

7300/180 16 Ram/2 Gb/12x ..... \$1399  
7300/180 Pentium System ..... \$1799

We accept educational and corporate purchase orders, and are experts in financing for virtually any size business!



# 800-441-6977

Local line: (503) 624-1827 • Fax (503) 624-1635

<http://www.powermax.com> • email: [powermax@europa.com](mailto:powermax@europa.com)

Prices subject to change without notice. Prices reflect cash discount. Credit card orders strictly verified against fraudulent use. With use of credit card as payment customer acknowledges that some products are subject to final sale.



MWAd# 0598CM **Sales**  
(818)787-1054

Same Day Shipping

**DHL** Worldwide Express

**FedEx** Federal Express

MasterCard

Visa



**CompuMall**  
Your Premier Computer Source

**800-977-5665**

[www.computerstogo.com](http://www.computerstogo.com)

**Fax**  
(818)787-2111

Prices Are Based on C.O.D. Order & Subject to Prior Sales & Change!

\* Factory refurbished with Warranty



**PFO**  
CAPITAL

**Leasing**  
**Best Rates**

e-mail:cmsales@cmpumall.com

**New Faster MACS** at Unbelievable Deals!

## PowerMacs

|  |               |  |
|--|---------------|--|
| <b>4400/200 DOS</b>                      | <b>\$1179</b> |  |
| PC/166, 32-2GB, 12xCD                    |               |  |
| <b>7300/180 DOS</b>                      | <b>\$1495</b> |  |
| PC/166, 32-2GB, 12xCD                    |               |  |
| 9600/300 64-4GB, 24xCD                   | \$3095        |  |
| 9600/200MP 32-4GB, 12xCD                 | \$2095        |  |
| 9600/200 32-4GB, 12xCD                   | \$1995        |  |
| 8600/300 32-4GB, 24xCD                   | \$2195        |  |
| 7300/200 32-2GB, 12xCD *                 | \$1395        |  |
| 7300/180 16-2GB, 12xCD                   | \$1295        |  |
| 6500/300 32-4GB, 12xCD, Avid Video, 33.6 | \$1495        |  |
| 6500/275 64-4GB, 12xCD, TV, Avid Video   | \$1495        |  |
| 6500/225 32-3GB, 12xCD                   | \$995         |  |
| 6500/250 32-4GB, 24xCD, Zip, 33.6        | \$1095        |  |
| 4400/200 32-2GB, 12xCD, 256K             | \$895         |  |

## Apple

### PowerBooks

|                      |               |  |
|----------------------|---------------|--|
| <b>3400c/240 MHz</b> | <b>\$2895</b> |  |
| 16/3GB, CD           |               |  |
| <b>3400c/200 MHz</b> | <b>\$2695</b> |  |
| 16/2GB, CD           |               |  |
| <b>2400c/180 MHz</b> | <b>\$1745</b> |  |
| 16/1.3GB             |               |  |
| <b>1400c/166 MHz</b> | <b>\$1795</b> |  |
| 16/2GB, CD           |               |  |

**3400c Battery \$89**

## NEW G3 Systems

### PowerMacs

|                  |                                   |               |
|------------------|-----------------------------------|---------------|
| <b>G3/233 DT</b> | <b>32-4GB, 24xCD, Kb.</b>         | <b>\$1595</b> |
| <b>G3/233 MT</b> | <b>32-4GB, 24xCD, 56K</b>         | <b>\$1795</b> |
| <b>G3/266</b>    | <b>Desktop 32-4GB, 24xCD, Zip</b> | <b>\$1795</b> |
| <b>G3/266</b>    | <b>Tower 32-6GB, 24xCD, Zip</b>   | <b>\$2245</b> |
| <b>G3/300</b>    | <b>Tower 128-2x4GB-24xCD</b>      | <b>\$4595</b> |

### PowerBook

|               |                            |               |
|---------------|----------------------------|---------------|
| <b>G3/250</b> | <b>32-5GB, 20xCD, 33.6</b> | <b>\$4295</b> |
|---------------|----------------------------|---------------|

### Fax/Modem

|                                     |              |
|-------------------------------------|--------------|
| <b>Teleport 56K External</b>        | <b>\$145</b> |
| <b>Powerport 14.4 PCMCIA</b>        | <b>\$39</b>  |
| <b>56K PCMCIA (\$50 Rebate)</b>     | <b>\$189</b> |
| <b>US Robotics 56K v.90 FOR MAC</b> | <b>\$159</b> |

## Displays

|                         |                  |
|-------------------------|------------------|
| <b>17" 750</b>          | <b>\$649</b>     |
| 17", 1280x1024 Res. .28 |                  |
| <b>1705/1710</b>        | <b>\$495/675</b> |
| 17" 750                 | \$649            |
| <b>17" 750AV</b>        | <b>\$745</b>     |
| 20" 850                 | \$1399           |
| <b>20" 850AV</b>        | <b>\$1599</b>    |



**LACIE**



**SONY**

**ViewSonic**

|                    |        |
|--------------------|--------|
| 100ES 15" 0.25 dpi | \$299  |
| 200ES 17" 0.25 dpi | \$575  |
| 200GS 17" 0.25 dpi | \$619  |
| 300SF 20" 0.25 dpi | \$1075 |

## SOFTWARE

|                              |              |
|------------------------------|--------------|
| <b>Adobe Photoshop 4.0.1</b> | <b>\$399</b> |
| <b>Adobe Illustrator 7.0</b> | <b>\$269</b> |
| <b>Adobe PageMaker 6.5</b>   | <b>\$335</b> |

|                              |              |
|------------------------------|--------------|
| <b>Macromedia Freehand 8</b> | <b>\$289</b> |
| Painter 5.0                  | \$239        |
| Expression                   | \$179        |
| Detailler                    | \$199        |

|                      |       |
|----------------------|-------|
| Bryce 3D             | \$149 |
| QuarkXpress 4.0      | \$695 |
| Connectix Virtual PC | \$137 |

|                                  |           |
|----------------------------------|-----------|
| Insignia SoftWindows 95 Ver. 5.0 | \$177     |
| MS Office 98 for MAC             | \$299     |
| MS Word 6.0.1 / Excel 5.0        | \$149/159 |

|                               |      |
|-------------------------------|------|
| Symantec Norton Utilities 3.5 | \$99 |
|-------------------------------|------|

**Super Deals**



## STORAGE

### CD Recordable

**LACIE**

**2x6 CD-R**  
**4x8 CD-R**

**\$379**  
**\$479**



**1-800-977-5665**  
[www.computerstogo.com](http://www.computerstogo.com)

## Digital Cameras

|                             |       |
|-----------------------------|-------|
| Agfa ePhoto 307             | \$309 |
| Agfa ePhoto 780             | \$497 |
| Agfa ePhoto 1280            | \$799 |
| CASIO QV-70                 | \$287 |
| CASIO QV-300                | \$629 |
| EPSON PhotoPC550            | \$299 |
| Kodak DC50                  | \$449 |
| Kodak DC-210 (\$100 Rebate) | \$749 |
| SONY Mavica FD5             | \$469 |
| SONY Mavica FD7             | \$649 |



## TOSHIBA

**PDR-2** **\$159**

## iX M I C R O

|                    |           |
|--------------------|-----------|
| ix3D Ultimate/ Pro | \$589/329 |
| ix3D Mac Rocket    | \$249     |
| Turbo TV MAC & PC  | \$89      |
| TwinTurbo 128M4/M8 | \$259/399 |



**Simms & Dimms**

**Best prices!**

**with Toast**

**Software**

## Printers

|                                     |                  |
|-------------------------------------|------------------|
| <b>Clr. LaserWriter 12/660 PS *</b> | <b>\$1995</b>    |
| <b>Clr. LaserWriter 12/660 PS</b>   | <b>\$3995</b>    |
| " 16/600 PS 16ppm, 8MB, Ethernet    | \$1099           |
| " 12/640 PS 12ppm, 6MB, Ethernet    | \$999            |
| <b>StyleWriter 4100/4500</b>        | <b>\$239/339</b> |

|   |
|---|
| <b>hp</b> <b>HEWLETT</b>                            |
| <b>NEW</b>  |
| <b>LaserJet 5000N</b> 16ppm, 1200dpi, 11x17", Ethr. |
| <b>LaserJet 4000N/TN</b> 17ppm                      |
| <b>LaserJet 4MV/4MV*</b> 11x17", PS L2              |
| " 5M / 5MP* / 6MP                                   |
| <b>DeskJet 1600CM/870CXi/340CM</b> \$1495/295/325   |
| <b>L.Jet 5MP</b> 6ppm, 3MB, 600DPI, PSL2            |

## EPSON

|                     |                       |
|---------------------|-----------------------|
| <b>600/800/3000</b> | <b>\$239/349/1665</b> |
| <b>Mac &amp; PC</b> |                       |

## XEROX

|   |               |
|---|---------------|
| <b>DocuPrint 4512N</b> 12ppm, 600dpi, Ethr.       | <b>\$1125</b> |
| <b>DocuPrint 4517MPS</b> 17ppm, 1200dpi, Ethr.    | <b>\$1349</b> |
| <b>DocuPrint N32</b> 32ppm, 600dpi, Ethr.         | <b>\$2679</b> |
| <b>DocuPrint C55</b> (Free Scanner with purchase) | <b>\$2979</b> |

|                     |
|---------------------|
| <b>CDR Media</b>    |
| 74Min., 650MB       |
| Qty. 100+ Spindle   |
| Qty. 100 jewel Case |
| CD-Rewritable       |

|                            |                  |
|----------------------------|------------------|
| <b>Zip Plus / Jazz II</b>  | <b>\$179/579</b> |
| <b>Zip SCSI / Jaz SCSI</b> | <b>\$137/319</b> |
| 10-Pk ZIP / 3-Pk JAZ Cart. | \$97/228         |

# 800-689-3933

Service (310) 671-4444  
Fax (310) 671-9565

LA

computer center

- Corporate Accounts
- Welcome
- Business Leasing Available
- Reseller Inquiries
- Welcome
- Fortune 1000, University, School, & Government Purchase Orders Accepted
- We Also carry Toshiba, Compaq, IBM notebooks.

## Monitors

HITACHI 3 year warranty



### RASTEROPS

MC7515 19" .22DP  
1600X1200 Monitor

**\$829.**

Mc 620 17" .28dp 1152X970 459.  
Mc 6315 17" .22dp 1280X1024 599.  
Mc 7515 19" .22dp 1600X1200 829.  
Mc 801 21" .22dp 1600X1200 1149.  
Mc 801HR 21" .22dp 1600X1280 1279.

**17" .22DP**

1600X1200 Monitor CM611

**\$449!**

**21" .22DP**

1600X1200 Monitor CM2110

**\$949!**

**21" .22DP**

1600X1280 Monitor CM2111

**\$999!**

## SONY

Sony 100ES/GS 329/359.  
Sony 200ES 17" 589.  
Sony 200GS/PS 639/789.

Sony 400PS 1029.  
Sony 300SF 20" 1149.  
Sony 20SE II 20" 1399.  
Sony 500PS 1599.

## Scanners

Agfa Arcus II Full Photo Shop 1299.  
Agfa Arcus II Solo 1199.  
Agfa StudioStar w/LE Photo 699.

Agfa SnapScan 600 389.  
Umax Astra 610S w/Photo Dlx. 149.  
Umax Astra 1200S w/Photo Full 269.

UmaxPower II w/ Photo Full 449.  
UmaxPower II w/ Photo Full 1249.

UmaxPower II w/ Photo Full 3350.  
UmaxPower II w/ Photo Full 449.

UmaxPowerbook 2000 3699.  
UmaxPowerbook 3000 149.

Umax Mirage II SE w/Trans. Adapter 149.

Microtek Scanner V30 1349.

Microtek Scanner III Full Photo/Tr. Ad. 1349.

## Monitors

NEC

A500 15" 1280x1024 .28dp 299.  
E500 15" 1280x1024 .25dp 349.  
A700 17" 1280x1024 .28dp 479.  
P750 17" 1600x1200 .25dp 749.  
P1150 21" 1600x1200 .28dp 1199.  
E1100 21" 1600x1200 .28dp 1099.  
XP37+ 39" 1024x768 .85dp CALL.  
1100XE 1100XP CALL.

radius

Precision View 21" 1599.  
Pressview 21" SR w/o calibrator 2699.  
Pressview 21" SR w/calibrator 2999.  
Photo DV PCI w/Firewire Card 369.  
Thunder Pro 30/1920 649.  
Thunder TX 1152 899.  
Colormatch Daylight 2299.  
Precision Color 24/1600 PCI 479.  
Video Vision 2.0 w/After Effects 2299.

ViewSonic

EA771 17" 1024x768 w/speakers .28dp 479.  
G771 17" 1024x768 .27dp 469.  
G790 19" 1280x1024 .28dp 569.  
P775 17" 1600x1200 .25dp 649.  
G800 20" 1600x1200 .28dp 979.  
P815 21" 1600x1200 .25dp 1249.  
G810 21" 1600x1200 .28dp 999.  
P810 21" 1600x1200 .25dp 1099.  
View Panel VPA 150 2099.

Apple Monitors

Apple 15" AV 369.  
Apple 1710 17" \* 549.  
Apple 720 17" CALL.  
Apple 750 17" 649.  
Apple 750 AV 17" 749.  
Apple 850 20" 1449.  
Apple 850 AV 20" 1699.

Apple Processors

Apple 132 MHz 604e 129.  
Apple 150 MHz 604e 199.  
Apple 200 MHz 604e 299.  
Apple 233 MHz 604e 499.  
Apple 300 MHz 604e 799.

Apple Mac

MAXPower G3 for 61XX 1149.  
MAXPower G3 210MHz 750 512k B/C@ 105MHz 449.  
MAXPower G3 240MHz 750 512k B/C@ 160MHz 649.  
MAXPower G3 for 61XX, 7100 & 8100 Processors 649.  
MAXPower G3 210MHz 750 512k B/C@ 105MHz 549.  
MAXPower G3 240MHz 750 512k B/C@ 160MHz 749.  
MAXPower G3 for 7300, 7500, 7600, 8500, etc. 549.  
MAXPower G3 220MHz 750 512k B/C@ 110MHz 599.  
MAXPower G3 250MHz 750 512k B/C@ 125MHz 849.  
MAXPower G3 266MHz 750 1MB B/C@ 133MHz 949.  
MAXPower G3 275MHz 750 1MB B/C@ 133MHz 1199.  
MAXPower G3 275MHz 750 1MB B/C@ 275MHz 2049.

FedEx

Fast Forward Thinking

MAXPower G3 for 61XX

MAXPower G3 210MHz 750 512k B/C@ 105MHz

MAXPower G3 240MHz 750 512k B/C@ 160MHz

MAXPower G3 for 61XX, 7100 & 8100 Processors

MAXPower G3 210MHz 750 512k B/C@ 105MHz

MAXPower G3 240MHz 750 512k B/C@ 160MHz

MAXPower G3 220MHz 750 512k B/C@ 110MHz

MAXPower G3 250MHz 750 512k B/C@ 125MHz

MAXPower G3 266MHz 750 1MB B/C@ 133MHz

MAXPower G3 275MHz 750 1MB B/C@ 133MHz

MAXPower G3 275MHz 750 1MB B/C@ 275MHz

MAAd#  
0698 Personal & Business  
Leasing By PFO CAPITAL



All prices are based on C.O.D. order  
& subject to prior sales & change!

\* Factory refurbished with Warranty  
○ Limited Quantity While Supply Last!

# COMPU-D

International, Inc.

6741 Van Nuys Blvd., Van Nuys, CA 91405

1-800-929-9333  
www.compu-d.com

Sales (818) 787-3282

Fax (818) 787-5555

e-mail: csales@compu-d.com

FedEx DHL



Fast Worldwide  
Shipping

## PowerMacs

|          |                              |        |
|----------|------------------------------|--------|
| 4400/200 | 16-2GB, CD, 256K             | \$995  |
| 6500/300 | 64-4GB, 12xCD, Zip, 33.6     | \$1495 |
| 6500/300 | 32-4GB, TV, Avid Video, 33.6 | \$1495 |
| 6500/250 | 32-4GB, 24xCD, Zip           | \$1095 |
| 6500/225 | 32-2GB, 12xCD, 33.6          | \$975  |
| 7300/200 | 32-4GB, CD                   | \$1399 |
| 7300/180 | 16-2GB, 12xCD, Kb            | \$1195 |
| 8600/300 | 64-4GB, 12xCD, Kb            | \$2195 |

## We Offer the Best Price on MEMORY.

PM.16/32/64MB \$45/79/129  
PB.16/32/64MB \$65/115/225

## Upgrade your PowerMac to G3

|            |            |        |
|------------|------------|--------|
| 220/110MHz | 512K Cache | \$599  |
| 250/125MHz | 512K Cache | \$699  |
| 266/133MHz | 1MB Cache  | \$899  |
| 275/183MHz | 1MB Cache  | \$1099 |
| 275/275MHz | 1MB Cache  | \$1499 |

9600/350 64-4GB, 24xCD, Zip \$3395

9600/300 64-4GB, 24xCD, Kb \$2995

|            |               |        |
|------------|---------------|--------|
| 9600/233   | 32-4GB, 12xCD | \$2095 |
| 9600/200MP | 32-4GB, CD    | \$1995 |
| 9600/200   | 32-4GB, CD    | \$1895 |

COMPU-D  
Deal of the  
month



Apple DOS Card  
including  
WINDOWS 95 &  
MS DOS 6.22  
\$495

## DOS PowerMacs

|                     |                                |
|---------------------|--------------------------------|
| All DOS Systems are | WINDOWS 95 & MAC OS Compatible |
| 7300/180 DOS        | \$1695                         |
| 4400/200 DOS        | \$1245                         |
| G3/233 DOS          | \$2145                         |
| G3/266 DOS          | \$2395                         |
| 9600/300 DOS        | \$3595                         |

## PowerBooks

|             |                 |             |
|-------------|-----------------|-------------|
| 3400c/240   | 32-3GB, CD      | \$3495      |
| 3400c/200   | 32-2GB, CD      | \$3095      |
| 3400c/180   | 32-1.3GB, CD    | \$2175      |
| 2400c/180   | 32-1.3GB        | \$1795      |
| 1400c/166   | 16-2GB, 8xCD    | \$1795      |
| 1400cs/166  | 16-1.3, 12xCD   | \$1495      |
| 5300cs/100* | 16-500          | \$795*      |
| DUO 2300C   | 40-2.1GB        | \$1195      |
| DUO 2300C*  | 20-1.1, Fax/Mdm | \$1095*     |
| DUO 230*    | 5300c           | \$445*/Call |

## Printers

|                       |        |
|-----------------------|--------|
| Apple 4/600PS*        | \$575  |
| LaserWriters 16/600PS | \$1095 |

16ppm, 600dpi, 8MB, Mac & PC w/Ethernet

StyleWriter 4100/4500 \$239/319

HEWLETT PACKARD Authorized Reseller & Service Center

|                           |                  |        |
|---------------------------|------------------|--------|
| LaserJet 5000N            | 1200 DPI 11x17"  | \$1875 |
| LaserJet 4000N/4000TN     | \$1375/1475      |        |
| LJ. 5M*/5M/5000GN         | \$1245/1345/2495 |        |
| LaserJet 551MX/5MP        | \$2895/595       |        |
| LaserJet 4MV/6MP/5MP*     | \$1995/825/499   |        |
| DeskJet 1600CM/ LJ. 6MP*  | \$1495/745       |        |
| EPSON Stylus 600/800/3000 | \$239/335/1649   |        |

AGFA

Arcus II \$1189  
DuoScan \$2995

## UMAX

The Magic of Color

|              |               |        |
|--------------|---------------|--------|
| UG-630       | GrayScale     | \$79   |
| UC-1200SE    | 2400dpi       | \$299  |
| Astra 610S   | (\$20 Rebate) | \$117  |
| Astra 1200S  | 1200dpi       | \$239  |
| PowerLook II |               | \$1259 |

## Scanners



\$4295 32/5GB/CD

PB. 3400c/200 MHz

48/2GB, CD \$2695

PB. 1400c/166 MHz

48/2GB, CD \$1895

## Apple

32/5GB/CD

48/2GB, CD \$2695

48/2GB, CD \$89



Apple 3400C  
Lithium  
Battery

\$89

PowerMac 9600/300 128/9GB/24xCD/Zip/8MB Video

ViewSonic 21" (1280 x 1024, 25 dpi)

Wacom ArtZ II 6x8 Tablet

Global Village 56K Fax/Modem

Adobe PhotoShop 4.0, Illustrator 7.0, PageMaker 6.5

Best  
Deal  
Bundle

\$5895



iomega

## STORAGE

Zip Drive / 10 Crtrdg. \$137/95

Jaz Drive SCSI / 3 Crtrdg. \$299/225

Zip+ SCSI & Parallel / Jaz II \$179/569

SyQuest SyJet 1.5GB SCSI Removable \$299

SyQuest SyJet 4.7GB SCSI Removable CALL

Quantum Atlas 4.5GB SCSI-II / Ext. \$299/359

Quantum Atlas 9GB SCSI / Ext. \$749/799

Seagate Cheetah 9GB SCSI-III \$879

PowerBook 3.2 GB IDE 2.5" \$249

5.0 GB IDE 2.5" \$549

## Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

ArtZ II 6x8/12x12/12x18\* \$195/289/389

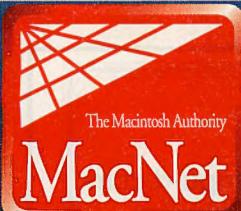
Graphic Tablets

WACOM

ArtPad II 4x5/ArtZ II 6x8/12x12 \$119/259/369

ArtZ II 6x8/12x12 With Painter 5 \$499/599

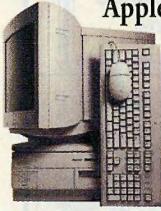
ArtZ II 6x8/12x12/12



# Incredible G3 Prices!

Shop Us Online at [WWW.APPLEMACNET.COM](http://WWW.APPLEMACNET.COM)

## Computers



### Apple Powermac G3

- 233MHz/Desktop
- 32MB SDRAM
- 4GB Hard Disk
- 24XCD/ 512kL2
- 2MB SGRAM

**\$1,499**

### Power Mac G3 Series

- G3R•266MHz Minitower
- 128MB/ 6GB/ 24XCD/ 6MB SGRAM /IX3D Ult. Rez. \$3,379
- G3•233MHz Minitower
- 32MB/ 4GB/ 24XCD/ 56k Modem/ 2MB VR/ ATI 64bit... \$1,779
- G3•266MHz Desktop
- 32MB/ 4GB/ 24XCD/ Zip Drive/ Ethernet/ 2MB VR... \$1,759
- G3•266MHz Minitower
- 32MB/ 4GB/ 24XCD/ Zip Drive/ Ethernet/ 2MB VR... \$2,199

### Power Mac 6500 series

- 250MHz 32MB/ 4GB/ 24XCD/ 56k Mdm/ Zip drive... Call
- 250MHz 48MB/ 4GB/ 24XCD/ 56k Mdm/ Zip drive... Call
- 300MHz 64MB/ 4GB/ 24XCD/ 56k Mdm/ Zip drive... Call

### PowerBook

- G3•250MHz
- 32MB/ 5GB/ 20XCD/ 33.6k modem... \$4,599
- 1400cs • 166MHz 16MB/ 2GB/ 12XCD/ 128k... \$1,499
- 2400c • 180MHz 16MB/ 2GB/ 8XCD/ 128k... Call
- 3400c • 200MHz 16MB/ 2GB/ 12XCD/ 33.6... Call
- 3400c • 240MHz 16MB/ 3GB/ 12XCD/ 33.6... Call

### PDA

- Message Pad 2100 162MHz 8MB/ 8MB ROM/ 4MB... Call
- Message Pad 2100 162MHz 5MB/ 8MB w/ keyboard... Call

## Blowout Deals



### Apple 7250 Server

- 120MHz/ 32MB/ 2GB/ 8XCD/ 256k
- Workgroup solutions CD

**\$999**W/ Internet solutions CD  
for only **\$1,099**

### Performa 6360+

#### Q41 Viewsonic Monitor

- 160MHz/ 16MB/ 1.2GB/ 12XCD
- 28.8modem/ Software Bundle

for only **\$999**

#### • Performa 6360/160MHz

Without The Monitor

**\$799**

Both models include Mouse &amp; Keyboard!

Brand New Products



## Modems

### Supra 56e

End the  
World  
Wide  
Wait!**\$135**

### Apple

Video Phone

### Farallon

Netopia™ 412 ISDN Modem

Netopia™ 440 Internet Router

### Global Village

• 56Kbps Teleport K56 Flex ext. Fax/Modem... \$149

• 56Kbps Teleport K56 X2 ext. Fax/Modem... \$149

• 56Kbps PC card K56 flex (powerbook)... \$279

• 56Kbps PC card Ethernet (powerbook)... \$349

### Supra

• Supra Express 56e VFaxModem... \$135

• Supra Express 56e SP Fax/Modem... \$145

### 3COM/US Robotics

• Sportster 56k(2X tech.) Fax/Modem... \$139

• Sportster 56k(2X tech.) Voice Fax/Modem... \$149

33.6 k PC Card (powerbook) upg.to 56k... \$179

ISDN 128Kbps PC Card (powerbook) ... \$499

3COM Impact IQ (ISDN modem) ... call

After manufacturer's rebate!

All prices are cash discounted. Prices &amp; product availability subject to change without notice. Any merchandise returned is subject to a restocking fee.

FedEx

AMERICAN EXPRESS

Cards

Discover

MasterCard

VISA

Shipping

FedEx

Federal Express

FedEx

**G3 PowerMacs  
Prices Never  
This Low!**

**G3/233  
\$1469**

**G3/266/Zip  
\$1749**

**G3/266/Zip MT  
\$2229**



- Identical to StarMax 4000
- Loaded standard equipment
- 604e/200 MT 64/4G/24xCD

**\$1299**

- 604e/200 DT 16/2G/12x (\$999)
- 17" 0.26 pitch monitor (+\$350)
- Zip(+\$105), Ether(+\$39), RAM

#### Power Mac

|                         |                  |        |
|-------------------------|------------------|--------|
| G3/266T                 | 32/6G/24x/Zip/AV | \$2229 |
| G3/266                  | 32/4G/24x/Zip    | \$1749 |
| G3/233                  | 32/4G/24x        | \$1469 |
| 9600/300                | 64/4G/24x        | \$2849 |
| 8600/250                | 32/4G/24x        | \$2199 |
| (above w/ internal Zip) |                  | +\$105 |
| 7300/200                | 32/2G/12x        | \$1439 |

#### PowerBook

|             |             |        |
|-------------|-------------|--------|
| G3/250      | 32/5G/20xCD | \$4299 |
| 1400c/166   | 16/2G/CD    | \$1799 |
| Apple 33.6k | PCMCIA      | +\$60  |

#### Check website for latest price.

All products new. Competitive pricing. Credit cards only 2.5% extra. CA 8.25%. Attractive volume discount. Intl and resellers welcome. sales@mactica.com • 650-742-9782

#### AppleVision

|     |     |        |            |       |
|-----|-----|--------|------------|-------|
| 20" | 850 | \$1389 | 604e/233   | \$349 |
| 17" | 750 | \$699  | 604e/200MP | \$449 |

#### RAM

|                   |              |
|-------------------|--------------|
| SDRAM 32/64/128MB | \$68/187/280 |
| DIMM 32/64MB      | \$69/140     |

#### Motorola Clone

|                      |        |
|----------------------|--------|
| 604e/200MHz CPU      |        |
| 64/4G/24x/512KL2/v4  | \$1299 |
| 126/2G/12x/512KL2/v2 | \$999  |

**MACTICA**

1-888-666-5147  
www.mactica.com

# www.macaddict.com

## Get Addicted

- ↗ Links to other key Mac sources
- ↗ News and information
- ↗ Chat forums
- ↗ Contest



A better machine. A better magazine.

# Mac ADDICT

A better machine. A better Web site.

## Mac ADDICT

- Free Issue & CD!
- Arts
- Clubhouse
- Games
- Net
- Tools
- About Us

MacAddict is brought to you by... **imagine**  
a new way of publishing

#### What's New

Saturday, December 28: We take a break until January 3, as... Apple buys NeXT! A conference call yields more details. Meanwhile: Apple buys NeXT! We survey the reader reaction. Also: Apple buys Next! The top ten side-effects. Quid Pro Quo 1.0 ships, Cyberdog 2.0 goes alpha, and meanwhile, somewhere, Apple buys NeXT!

#### This Issue

January 1997: We show you powerful and dangerous ways to customize your Mac, look at QuickTime movie-making and creating cool sounds, and much much more.

#### Help!

Our help page answers your questions about the magazine and the disc, lists handy resources for subscribers and provides complete contact information.

#### Evangelist

Good stuff from Guy Kawasaki's mailing list for Mac loyalists.

Come see us at Macworld Expo/San Francisco and enter our

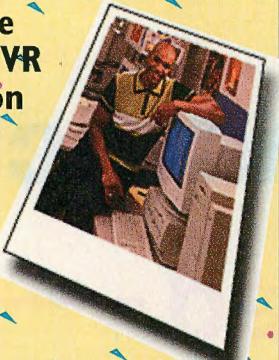
# Lowest Prices & Great Service ...here



# www.macstuff.net

CPUs - Apple & Clone  
Displays • Printers • VR  
• Memory • Expansion  
Boards • Scanners

Call today or check our  
web site for on-line  
price check and  
ordering!



## DIGITEK

Inc., Computer Sales & Internet Services  
www.macstuff.net or call 888/699-8787  
Rockford Trust Bldg., 202 West State Street, Suite 700,  
Rockford, IL 61101-1118.  
Int'l/local 815/969-8000 • fax 815/969-8760  
sales@macstuff.net • Go Digitek@aol.com

**DFI** 20" SONY COLOR MONITOR -GDM 1960

**ONLY \$549!**

14" - \$125! NEXT DAY  
17" - \$299! DELIVERY  
19" - \$499! AVAILABLE

CALL FOR DETAILS 800•390•7020  
181 Salem Street Malden, MA 02148

## COMPUTER DISCOUNTERS

WE WILL SAVE YOU MONEY - THE TOTAL HARDWARE SOURCE!! NEW, REFURBISHED and DEMO EQUIPMENT IN STOCK.  
MAC PRINTERS, COMPUTERS & POWERBOOKS IN STOCK NAME BRAND PENTIUM SYSTEMS from \$899 to \$1995

### WE BUY USED/DISCONTINUED MAC HARDWARE!

### MACINTOSH SPECIALS

### POWERBOOKS

PowerBook 540C 12/24/19.2  
FaxModem/Active color.....\$879  
PowerBook 3400C/240MHz/16MB/  
3GB/12XCD/12.1TFT2999.....\$2999  
Radius Thunder PC 30/1152 & 1600...\$199/199  
Duo Floppy Drive/ Floppy Adapter/  
Microdock.....\$99/9/9179

### 68040 PROCESSOR MACS

CENTRIS 610/650.....\$259/299  
QUADRA 650 8/230.....\$350  
QUADRA 840AV 16/500/CD.....\$695  
QUADRA 950 16/250.....\$395

### POWERPC PROCESSOR MACS

PowerMac 7100/80 8/250.....\$595

PowerMac 8100/100 16/1GB/CD.....\$799  
PowerMac 6100/50 16/250  
w/14" Apple Monitor.....\$599

### LASERWRITERS

DEC Laser 1152 PS/2 2MB.....\$199  
HP LaserJet 5MP/BMP.....\$529/729  
HP 4MV/5M/5S/IMX.....\$1695/1395/2395  
Laserwriter IIINT.....\$195

### MONITORS

Special - Mac Monitors  
HP A2094A 20"Sony Trinitron  
1152 x 870 @ 75Hz MPR II.....\$399

8883 Leesburg Pike, Vienna, VA 22180  
10543 Ewing Road, Beltsville, MD 20705

Toll Free # (800) 964-1886  
www.computerdiscounters.w1.com



## REUNION

### "Spectacular"

MacWorld 1/98

### Reunion 5

#### BETTER THAN EVER!

The most comprehensive family tree software available. Create large, beautiful pedigree and descendant charts - plus, new for Reunion 5, relative and timeline charts. Play sounds & watch

videos. Print mailing lists, birthday and anniversary calendars, and book reports - they're great for family reunions. Reunion makes it easy to share your family information on the internet, with automatic HTML reports and "Web Family Cards" with pictures.

*Reunion is easy to use, fast, fun and made for the Macintosh.*



### Leister Productions

PO Box 289, Mechanicsburg, PA 17055  
phone 717-697-1378 fax 717-697-4373

e-mail: info@LeisterPro.com • web site: www.LeisterPro.com



## Mac POWER

Sales & Service, Inc.  
BUY • SELL • TRADE  
UPGRADE • REPAIR

New • Used • Refurb.

- Powerbooks • Printers
- PowerMacs • Peripherals
- Performas • Ram
- Quadras • Parts
- MacII-LC • Software
- Monitors • Accessories

Call now for best prices!

**888-275-POWER**

Fax: 408-448-6132  
1080 Blossom Hill Road #E  
San Jose, California, 95123

| Laptops       |        |       |
|---------------|--------|-------|
| Powerbook 170 | 4/40   | \$449 |
| Powerbook 160 | 4/80   | \$469 |
| Powerbook 180 | 4/80   | \$549 |
| Duo 210       | 4/40   | \$279 |
| Duo 230       | 4/120  | \$379 |
| Duo 280c      | 12/320 | \$659 |

Save on Duo & Dock Bundles

| Monitors                |  |       |
|-------------------------|--|-------|
| 17" Apple Multiscan     |  | \$499 |
| 16" Apple Color RGB     |  | \$299 |
| 14" Apple Color Display |  | \$179 |
| 13" Apple Color RGB     |  | \$159 |

| Desktops      |           |       |
|---------------|-----------|-------|
| Mac IIcx      | 4/80      | \$99  |
| Mac LC        | 4/40      | \$129 |
| Centris 610   | 8/80      | \$289 |
| Quadra 700    | 8/80      | \$299 |
| Quadra 840av  | 8/230     | \$479 |
| Server 80/800 | 8/500     | \$499 |
| Server 95/950 | 8/230     | \$549 |
| PM 6100/66    | 8/500     | \$599 |
| PM 7100/80    | 8/500     | \$649 |
| PM 7200/75    | 16/500/CD | \$679 |
| PM 7200/90    | 16/500/CD | \$749 |

## Mac Sales

www.macs4sale.com

### Laptops

|               |        |       |
|---------------|--------|-------|
| Powerbook 170 | 4/40   | \$449 |
| Powerbook 160 | 4/80   | \$469 |
| Powerbook 180 | 4/80   | \$549 |
| Duo 210       | 4/40   | \$279 |
| Duo 230       | 4/120  | \$379 |
| Duo 280c      | 12/320 | \$659 |

Save on Duo & Dock Bundles

### Monitors

|                         |       |
|-------------------------|-------|
| 17" Apple Multiscan     | \$499 |
| 16" Apple Color RGB     | \$299 |
| 14" Apple Color Display | \$179 |
| 13" Apple Color RGB     | \$159 |

### Desktops

|               |           |       |
|---------------|-----------|-------|
| Mac IIcx      | 4/80      | \$99  |
| Mac LC        | 4/40      | \$129 |
| Centris 610   | 8/80      | \$289 |
| Quadra 700    | 8/80      | \$299 |
| Quadra 840av  | 8/230     | \$479 |
| Server 80/800 | 8/500     | \$499 |
| Server 95/950 | 8/230     | \$549 |
| PM 6100/66    | 8/500     | \$599 |
| PM 7100/80    | 8/500     | \$649 |
| PM 7200/75    | 16/500/CD | \$679 |
| PM 7200/90    | 16/500/CD | \$749 |

### Desktops

|               |           |       |
|---------------|-----------|-------|
| Mac IIcx      | 4/80      | \$99  |
| Mac LC        | 4/40      | \$129 |
| Centris 610   | 8/80      | \$289 |
| Quadra 700    | 8/80      | \$299 |
| Quadra 840av  | 8/230     | \$479 |
| Server 80/800 | 8/500     | \$499 |
| Server 95/950 | 8/230     | \$549 |
| PM 6100/66    | 8/500     | \$599 |
| PM 7100/80    | 8/500     | \$649 |
| PM 7200/75    | 16/500/CD | \$679 |
| PM 7200/90    | 16/500/CD | \$749 |

### Laser Printers

|                        |       |
|------------------------|-------|
| Laserwriter IIINT      | \$199 |
| Select 300 series from | \$199 |
| Pro 600 series from    | \$649 |

### Ink Jet Printers

|                 |       |
|-----------------|-------|
| HP DW 320 Color | \$149 |
|-----------------|-------|

### Accessories

|                           |      |
|---------------------------|------|
| Apple Keyboards from      | \$10 |
| PowerBook Batt Rechargers | \$29 |
| LC 10B-T Ether Cards      | \$59 |
| Apple Transceivers        | \$29 |
| Replacement Floppy Drives | \$59 |

(No exchange necessary)

### 1-888-MACSALE

Buy • Sell • Repair • Parts

1-888-622-7253

Prices represent a Cash Discount

Products are Used/Refurbished unless noted.

**NEW!**

- Sound & video
- Web publishing
- New charts
- Unlimited people
- Unlimited facts and events
- Unlimited sources
- Unlimited chart size
- Hebrew date conversion

Full demo at [www.LeisterPro.com](http://www.LeisterPro.com)

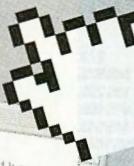
To order, call

MacConnection 1-800-334-4444



**Mac ADDICT**  
A better machine. A better magazine.

Create **REAL** applications with one finger...



**Use the others for something else.**

Great for Novice or Expert programmers

Build your interface visually in minutes

Powerful, yet simple BASIC programming language

## Modern Object-Oriented design

# REALbasic™

Visit [www.realbasic.com](http://www.realbasic.com) for a FREE DEMO

EALbasic is a trademark of REAL Software, Inc.

www.macadict.com

# Get Addicted

## Links to other key Mac sources



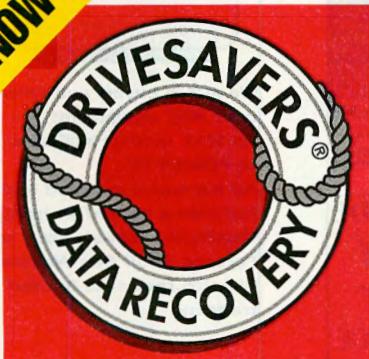
# Mac ADDICT

A better machine. A better Web site.



**DATA RECOVER: 800-440-1904**

# 7 good reasons to choose DriveSavers:



1. We're the most trusted and respected data recovery specialists.
2. 24-hour, onsite, and weekend service available.
3. Proprietary techniques so advanced we retrieve data others might simply abandon.
4. Over 12 years of Macintosh data recovery experience.
5. Certified to maintain most drive warranties.
6. Featured by CNN, NextStep, BBC, Forbes.
7. All storage devices; Mac OS, DOS, Win95, WinNT, OS/2, UNIX, Sun, SGI, Novell.

Clip and save this ad. Visit DriveSavers at: [www.drivesavers.com](http://www.drivesavers.com)

©1997 DRIVESAVERS INC 400 BEL MARIN KEYS BLVD NOVATO CA 94949 INTL : 415-382-2000 FAX: 415-883-0780



# SHOPPERS PARADISE

# infinity Micro

2289 Westwood Blvd.  
Los Angeles, CA 90064

800 • 589 • 1234

Tel: (310) 470-9426  
Fax: (310) 470-4956

PowerMacs

|                              |       |                      |       |
|------------------------------|-------|----------------------|-------|
| G3/233 32/4GB/24XCD/Desktop  | 1495  | 5200/75 8/800/CD*    | 945.  |
| G3/233 32/4GB/CD/56K/Desktop | 1779. | 5215/75 8/1/G/CD*    | 949.  |
| G3/266 32/4GB/24XCD/Desktop  | 2289. | 5260/100 16/800/CD*  | 1195. |
| G3/266 32/6GB/24XCD/Tower    | 1779. | 5300/120 16/1/G/16*  | 1195. |
| G3/266 128/4GB/100BaseT      | 3395. | 5400/180 16/1.2/CD*  | 1295. |
| 4400/200 32/2GB/CD/Pentium   | 1195. | 6400/05 12/500/CD*   | 595.  |
| 6500/225 32/3GB/CD/KB        | 1079. | 6116/66 8/500/CD*    | 595.  |
| 6500/250 32/4GB/CD/ZIP/KB    | 1299. | 6200/75 8/16/CD*     | 595.  |
| 6500/300 64/4GB/12XCD        | 1195. | 6300/100 16/1.2/CD*  | 595.  |
| 6500/300 64/4GB/CD/AVID      | 1495. | 6360/160 16/1.2/CD*  | 695.  |
| 7100/80 8/700/CD*            | 795.  | 6400/180 32/2GB/CD*  | 795.  |
| 7200/90 8/500/4XCD*          | 895.  | 6400/200 16/2.4/CD*  | 895.  |
| 7300/180 16/2GB/CD/KB        | 1295. | 6400/200E 16/2.4/CD* | 995.  |
| 7300/180 16/2GB/CD/Pentium   | 1795. | PT810 21             | 1295. |

Performs

Apple PowerBooks

|  |          |   |           |
|--|----------|---|-----------|
| G3/250MHz 32/5GB/20XCD                       | 4395.    | Q41 14" / Q51 15"   | 199/245.  |
| G3/250MHz 32/5GB/20XCD/M4595.                | 1095.    | Q53 15" / Q71 17"   | 239/479.  |
| 7600/132 16/1GB/8xCD*                        | 1095.    | Call V641 14" / V655 17"  | 199/295.  |
| 8100/100 16/2GB/4xCD*                        | 1295.    | Call V773 17" / V775 17"  | 545/545.  |
| 8600/200 32/2GB/12xCD/Zip                    | 1695.    | Call V95 19" COLOR  | 795.      |
| 8600/250 32/4GB/CD/Zip                       | 1795.    | 2195. V115 21" COLOR  | 995.      |
| 8600/300 32/4GB/12xCD/Zip                    | 2095.    | PRINTERS  | 1795.     |
| 9500/200MP 32/2G/8XCD*                       | 1995.    | DeskJet 890cxi  | 439.      |
| 9600/200 32/4GB/CD                           | 1995.    | DeskJet 1600CM  | 1495.     |
| 9600/233 32/4GB/12XCD                        | 2095.    | LaserJet 5MP/6MP  | 595/619.  |
| 9600/300 64/4GB/16xCD/Zip                    | 2649.    | LaserJet 4000TN   | 1545.     |
| 9600/350 64/4GB/24xCD/Zip                    | 3095.    | LaserJet 4MV  | 2195.     |
| Apple 20TH Anniversary                       | CALL.    | 795. Apple 4/600*/12/640  | 695/979.  |
| APPLE MONITORS                               |          | 829. Apple Color 12/600*  | 1995.     |
| Apple 15" Multiscan                          | 299.     | 1095. StyleWriter 2500  | 195*/279. |
| Apple 15" AV Multiscan                       | 385.     | 1789. Memory Product Available!                                     |           |
| Apple 720/1710*                              | 559/495. | 995. Epson Stylus 3000 \$1695.                                      |           |
| Apple 1705 Multiscan*                        | 395.     | Sony, Wacom, IX Micro, Newgen Umax, Epson, Microtek are in stock!!! |           |
| Apple Vision 750                             | 729.     |   |           |
| Apple Vision 750AV                           | 795.     |   |           |
| Apple Vision 850 20"                         | 1389.    | 299. <b>APPLE COLOR LASER</b>                                       |           |
| Apple Vision 850AV 20"                       | 1795.    | 12/600PS *  |           |
| Apple 20" Multiscan*                         | 995.     | 28MB RAM, 240MB HD  |           |
| Epson Stylus Pro-XL * \$369.                 |          | NEW ACCESSORY KIT   |           |
| BUY GE 4YEAR WARRANTY FOR YOUR PROTECTION!!! |          |   |           |

All prices are cash discounted & are subject to change with out notice. Please call for most recent prices.

SOFTWARE

|                        |      |
|------------------------|------|
| 2300C/100 20/GIG/14.4" | 299. |
| 2400C/180 16/1.3GIG    | 385. |
| 540C/16/500/14.4"      | 500. |
| 180 14/120/14.4 Fax*   | 595. |

Apple Photoshop version 4.0

|                             |       |
|-----------------------------|-------|
| Adobe Photoshop version 4.0 | 279.  |
| Adobe PageMaker vers. 6.5   | 279.  |
| Adobe After Effects         | 1195. |
| Quark Express V.4.0         | 719.  |
| Microsoft Office package    | 295.  |

12/600PS \*

28MB RAM, 240MB HD

NEW ACCESSORY KIT

**1895\***

# MEMORY

Lifetime Warranty!

## BEST PRICES!

Apple® Authorized Value-Added Reseller

We Beat Any Price!!\*

SDRAM - In Stock!

PowerBook RAM

Specials

168 Pin DIMMs

Cache/VRAM

Cache/VRAM

32/64mb

16/32mb

Mac IICi 8/0

28mb

16/24/32

Quantum 2.1 gb

256mb

32/48mb

Quantum 3.2 gb

4mb Video RAM

5300

Quantum 4.3 gb

55

64/128 G3/3400

IBM PBK SCSI 240

16mb

65/155

\$ 99

32mb

72 pin

\$ 21

64mb

72 pin

\$ 45

128mb

30 pin

\$ 12

3.3 volt EDO

16mb

512k

\$ Call

45

\$ 70

All prices are subject to change.

Limited to stock on hand. #26

We Buy, Sell & Trade Macs!  
Call (800) 80-WE-BUY

11933 Wilshire Boulevard  
West Los Angeles, CA 90025

Fax: (310) 966-4433

Order OnLine!! [www.macsolutions.com](http://www.macsolutions.com)

University & School P.O.'s Welcome

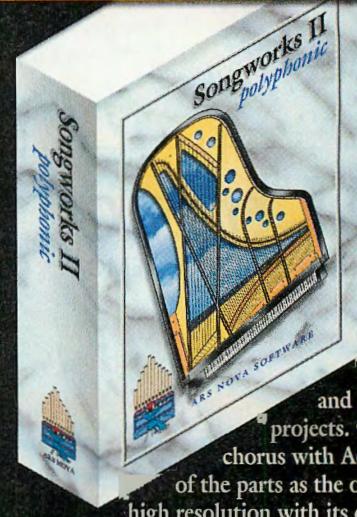
VISA-Discover-MC-AMEX no surcharge

# (800) 873-3RAM

**MAC**  
Solutions

**NEW! Songworks II polyphonic**

Music Composition & Exploration!



Write any kind of music, from songs to symphonies.

• Let Songworks II suggest harmony or tune ideas! • Can notate music you play, via MIDI or even letter keys. • MIDI is not required—compose or listen even on a laptop.

• Exports sound files and PICTs for multimedia

projects. • Learn your part in a chorus with Active Listening™ (tap one of the parts as the others play!) • Prints in high resolution with its own True-Type music font. • Outputs Mac 16-bit sound, QuickTime instruments, or MIDI. • Something to do with all that power in your PowerMac. • Imports/Exports MIDI files, too. SRP \$125.

ARS NOVA • [www.ars-nova.com](http://www.ars-nova.com) • 800-445-4866

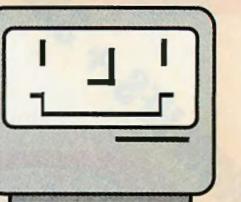
BUY-SELL-TRADE-LEASE UPGRADE REPAIR

[www.awhen.com](http://www.awhen.com)

|  |         |
|--|---------|
| Mac IICi cache or hubbus ethernet card | S 15    |
| Power Book 170 6/80                    | S 399   |
| Power Book 5300c/100 8/500             | S 999   |
| Newton eMate 300 w/33.6 modem          | S 699   |
| Video Cards 24-bit apple hubbus        | S 89    |
| Mac IICx13 "RGB, keyboard, mouse       | S 199   |
| Mac IICx13 "RGB, keyboard, mouse       | S 229   |
| Mac IICx13 "RGB, keyboard, mouse       | S 259   |
| Permedia 5200 8/164xCD                 | S 999   |
| SE/30 16/80                            | S 99    |
| SE/30 8/80                             | S 149   |
| Quadra 800 8/230                       | S 249   |
| Quadra 660av 8/230/CD                  | S 349   |
| Quadra 950 16/830                      | S 449   |
| Centris 650 8/250                      | S 549   |
| Quadra 840av 8/500                     | S 599   |
| 30 Pin SIMMs 1 & 2 Meg                 | S/3/Meg |
| Apple LW II                            | S 299   |

Toll Free Sales Hot-line @ 888-89 AWHEN

ALL OTHERS USE (801) 547-9241 VOICE  
8:00am-6:00pm MDT (801) 771-0079 FAX  
We accept all major credit cards



- ★ We match buyers and sellers of used MAC equipment!
- ★ All MAC models available; see to POWER PC.
- ★ All hardware is tested and includes a limited warranty.
- ★ Qualifying School, Gov't and Fortune 1000 POs Welcome
- ★ We also specialize in used trade-ins

The Computer Exchange

800-504-4655

[www.compechx.com](http://www.compechx.com)

Cust Service: 404-315-089

Fax: 404-315-7840

2100 Cheshire BR Rd., Suite E

Atlanta, GA 30324

1•800•4•MEMORY

[HTTP://18004MEMORY.COM](http://18004MEMORY.COM)

**MEMORY**

Lifetime Warranty

**58 PIN DIMM**  
6MB \$29.99  
32MB \$65.139

**72 PIN SIMM**  
3MB \$10.19  
32MB \$35.65

**30 PIN SIMM**  
2/4MB \$8.12/14  
MB \$52

**DRAM for G3**  
32MB \$59.89  
128MB \$189.389

**Cache & VRAM**  
Stock Excellent Deals

We Accept P.O.'s from Academic Institutions, Government & Qualified Firms.

**MEMORY**

Serving Computer Industry Since 1981

**Best Price!**

**We Specialize in PowerBook Memory**

| POWERBOOK G3   |                 |
|--|-----------------|
| 16/32MB  | \$65/105        |
| 64/128MB   | \$179/329       |
| <b>POWERBOOK 3400</b>                                      |                 |
| 16/32/48MB   | \$65/105/169    |
| 64/128MB   | \$210/349       |
| <b>POWERBOOK T400</b>                                      |                 |
| 16/32/48MB   | \$69/99/169     |
| <b>POWERBOOK 5300, &amp; 190</b>                           |                 |
| 16/24/32/48MB  | \$65/89/100/169 |
| <b>PB. 500 &amp; DUO Series</b> Call                       |                 |
| We only carry major brands                                 |                 |
| Memory. Quality, service & super deals is our #1 priority. |                 |

Toll Free **1-888-808-6242**  
**CALL** [www.eritech.com](http://www.eritech.com)  
Phone: (818) 244-6242 FAX: (818) 500-7699  
e-mail: [eritech@sprynet.com](mailto:eritech@sprynet.com)

Prices are subject to change without notice!

**Power 120 16/4.3/12x (R)** \$699 **24x CD ROM Bootable** \$99  
\*Includes Kybd & Mouse

**Power 120 0/0/0 (R)** \$399 **External** \$129  
\*Includes Cables & InTech SW

**Mac Ici Package (U)** \$199 **Mac OS 8.0 complete upgrade** \$49.99  
8/80 13" Color Mtr, Ext Kybd, System 7.6CD \$24.99

**Centris 650 16/240/CD (U)** \$399 **28.8 bps External Modem (N)** \$49  
8/240 14" Color Mtr, Ext Kybd, Adobe Photoshop 2.5 LE OR Microsoft Works 2.0

**PowerMAC 6100-60 16/240 (U)** \$499 **Seagate Hawk 4.3GB (N)** \$249  
Power PC 601-60 MHz Upgradable to G3 3.5" 1/2H1 SCSI II F/W 80pin or 50pin

**Performa 6360 (R)** \$789 **HP LaserJet 5MP (R)** \$499  
603e 160 Mhz 16/1.2/8x/28.8 modem 6ppm Mac or PC 600dpi

**Performa 5200 (R)** \$889 **Apple 17" MultiScan (R)** \$399  
603-75 Mhz 8/500/4x Trinitron™ tilt/swivel base  
\*Add TV \$49

**32x Toshiba CD ROM, SCST** \$139.00 **15" Apple MultiScan Mtr (R)** \$229.00  
32x Toshiba External CD ROM 159.00 **Color 20" Monitors (U) from** \$499.00  
12x CyberDrive CDROM 79.00 **Apple 20" Two Page Display (U)** \$99.00  
2x Apple CD ROM (P) 49.00 **Apple 1710 AV MultiScan Mtr (R)** \$449.00  
1.2 GB Performa IDE Drive 139.00 **NEC 17" Trinitron Mtr (U)** \$349.00  
Ethernet PDS/NuBus/PCI/SE 55.00 **Apple 14" Color Plus Mtr (U)** \$189.00  
Mac Ici 1/0 89.00 **Apple 14" RGB Trinitron Mtr (U)** \$199.00  
IIS NuBus Adapter 19.00 **Apple 13" RGB Trinitron Mtr (U)** \$159.00  
Mac Icx 0/0 69.00 **Apple Extended Keyboard II (U)** \$29.00  
Mac Ici 0/0 99.00 **Classic 4/40 128K Mouse, Mac ADB (N)** \$19.99  
Ici 32k cache 19.00 **SE/30 8/80 199.00 Apple LaserWriter NTR Upgd (N)** \$69.00  
C650 16/240 299.00 **Apple LaserWriter IIIn (U)** \$199.00

**PowerON computer services** 4323 Anthony Ct. #1 • Rocklin, CA 95677

**JOIN E-Mail Mailing List** **800.673.6227**  
**www.poweron.net**

All Sales Final • All Prices include 3% cash discount  
Prices subject to change without notice

(916) 652-1880 • (916) 652-1881 FAX Mon.-Sat. 10a-5p PST

free:  
**38) 368-6693**

## MediaGuide BUY/SELL/TRADE

Local/Int'l: (303) 571-1900  
Fax: (303) 571-5020  
777 N. Santa Fe Dr.  
Denver, CO 80204

| POWER MACS        |   | POWER MACS                |  | MONITORS |  |
|-------------------|---|---------------------------|--|----------|--|
| 4/0.....\$49      | 6100/60 8/500/CD.....\$599                                      | Apple 12" mono.....\$89   |  |          |  |
| 800k.....\$79     | 7100/66 8/500/CD.....\$649                                      | Apple 12" RGB.....\$119   |  |          |  |
| FDHD.....\$119    | 7100/80 8/500/CD.....\$699                                      | Apple 13" RGB.....\$149   |  |          |  |
| 0.....\$149       | 7200/75 8/500/CD.....\$649                                      | Apple 14" Color.....\$179 |  |          |  |
| 40.....\$119      | 7200/90 8/500/CD.....\$749                                      | Apple 15" MS.....\$299    |  |          |  |
| 4/80.....\$149    | 8100/80 16/500/CD.....\$799                                     | Apple 16" RGB.....\$349   |  |          |  |
| 0.....\$89        | 8100/100 16/500/CD.....\$899                                    | Apple 17" MS.....\$499    |  |          |  |
| 0.....\$139       | 7500/100 16/1gig/CD.....\$1099                                  | Apple 20" MS.....\$899    |  |          |  |
| 0/Video.....\$69  | 8500/120 16/1gig/CD.....\$1199                                  |                           |  |          |  |
| 0.....\$99        | 9500/120 16/1gig/CD.....\$1249                                  |                           |  |          |  |
| Video.....\$99    | 7300/200 32/2gig/CD.....\$1499                                  |                           |  |          |  |
| \$149             | More Power Macs and Clones in stock...CALL!                     |                           |  |          |  |
| \$159             | POWERBOOKS  |                           |  |          |  |
| Video.....\$199   | ImageWriter II or LQ.....\$99                                   |                           |  |          |  |
| 0/Video.....\$199 | Apple LaserWriter.....\$99                                      |                           |  |          |  |
| 0/Video.....\$199 | LaserWriter IIL.....\$199                                       |                           |  |          |  |
| 0/Video.....\$199 | LaserWriter IILX.....\$249                                      |                           |  |          |  |
| 0/Video.....\$199 | LW Iif / Ig.....\$299/\$399                                     |                           |  |          |  |
| 0/Video.....\$299 | PARTS & MISC.   |                           |  |          |  |
| 0/Video.....\$299 | 1.44mb floppy.....from \$69                                     |                           |  |          |  |
| 0/Video.....\$299 | Apple external HD case.....\$29                                 |                           |  |          |  |
| 0/Video.....\$299 | 12x external CD-ROM.....\$129                                   |                           |  |          |  |
| 0/Video.....\$299 | Apple 2x ext. CD-ROM.....\$79                                   |                           |  |          |  |
| 0/Video.....\$299 | Plaintalk microphone.....\$7                                    |                           |  |          |  |
| 0/Video.....\$449 | 190cs 8/500.....\$849   |                           |  |          |  |
| 0/Video.....\$449 | 6100 DOS card (new).....\$49                                    |                           |  |          |  |
| 0/Video.....\$399 | 610/6100 Power supply.....\$99                                  |                           |  |          |  |
| 0/Video.....\$479 | 256K L2 cache for 6100.....\$12                                 |                           |  |          |  |
| 0/Video.....\$449 | Ethernet cards.....from \$29                                    |                           |  |          |  |
| 0/Video.....\$449 | MANY OTHER PARTS, PERIPHERALS, MEMORY, (YOU NAME IT!) IN STOCK! |                           |  |          |  |
| 0/Video.....\$449 | 1000s / 3400s..BEST prices!                                     |                           |  |          |  |

| 30-pin SIMMs: |  |
|---------------|--|
| 1MB.....\$5   |  |
| 2MB.....\$9   |  |
| 4MB.....\$15  |  |

### Powerbook 5300c BLOWOUT!

|                          |                          |
|--------------------------|--------------------------|
| 5300c<br>24/500<br>\$999 | 5300c<br>16/750<br>\$999 |
|--------------------------|--------------------------|

NEW! LIND external battery for PB1xx...\$49

NEW PowerMac 6100-series DOS card...\$49

### Incredible Deal on Powerbook Duo 280c

Duo 280c  
40/1gig/14.4  
Only \$699 !!

Add a Duo Dock (with lid upgrade) for only \$99 !!

Upgrade ANY Duo to a 280c  
for only \$299  
(screen and motherboard replacement)

### HOT Prices on Powerbook Parts!

|   |  |
|---|--|
| 1gig 2.5" SCSI hard drive.....\$299     | Duo Dock power supply.....\$79 (no exch)     |
| 36mb Duo SIMM module.....\$99           | Duo Dock lid upgrade.....\$69                |
| Duo AC adaptor.....\$39                 | Apple 14.4 modem for PB Duo.....\$89         |
| Duo Keyboard.....\$39                   | Global Village 14.4 modem for PB1xx.....\$39 |
| Duo trackball.....\$39                  | Global Village 19.2 modem for PB5xx.....\$99 |
| Duo Floppy drive with adaptor.....\$159 | Powerbook 5xx floppy drive.....\$149         |





# shutdown

## The Jumbo Gil Amelio Nonaction Figure

WATCH GIL twiddle his thumbs!  
HEAR HIM BABBLE randomly for hours on end!

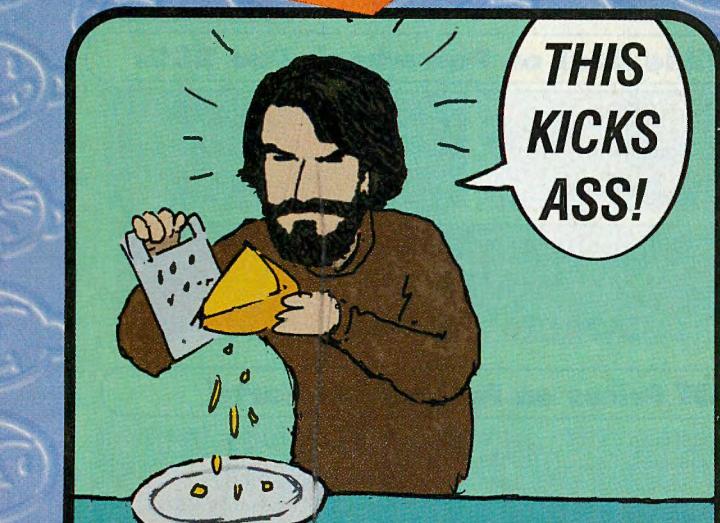
**PRICE:** Put no money down and make no payments for the first 18 months. If you decide you are not happy with the doll at the end of this time, you can replace him with the Talking Hair-Grow-Long Steve Jobs Action Figure for a small severance fee of \$6,731,871.

**SPECIAL FEATURES:**

- Pop-up knife springs from back for realistic play with the Talking Hair-Grow-Long Steve Jobs Action Figure.
- Starched socks never fall down
- Rests quietly on laurels
- Knows a lot of famous people
- Sometimes uses a Mac (display models only)

**TOYS SOLD SEPARATELY:**

- Matchbox Jet (life-size and fueled)
- Ellen Hancock Fashion Barbie
- Employee-Loyalty Novelty Kits
- Personality Card by Ronco

**STEVE JOBS LIKES HIS CHEESE INSANELY GRATED\***

\* Steve Jobs, a dedicated vegan, does not in fact eat cheese under any circumstances. This scenario should not be construed as connecting Mr. Jobs with an endorsement for any dairy products.

Doodle by Mark Simmons

## Top Ten Signs You Work for Apple

1. You used to work for NeXT.
2. You leak stories to the press from your home email account.
3. You have nightmares about being "steved."
4. Your name is Steve Jobs.
5. You read *MacAddict*.
6. You want to be the CEO of your own company someday.
7. You are working for The Man and he scares you.
8. You think different.
9. Your company just sold off another division.
10. While watching *Friends*, you notice a new Apple commercial.

## Top Ten Signs You Used To Work for Apple

1. You never worked for NeXT.
2. You leak stories to the press from your office at Microsoft.
3. You have nightmares about being "steved."
4. Your name is Gil Amelio.
5. You read *Macworld*.
6. You are the CEO of your own company.
7. You feel like you're working for The Man.
8. You think differently.
9. Your company just bought another division.
10. While watching *Friends*, you notice that Rachel's sporting a new hairstyle.

## Power Reporting

"The show is over, the monkey is dead, and they've folded the tent," said a Power Computing security guard in a *New York Times* article on the demise of the former Mac clone company. The *Times*, a bastion of journalistic quality, interviewed the guard after repeated attempts to reach Power Computing chairman Stephen Kahng, a PR representative, a janitor, and a passerby were unsuccessful.

## PROGRAMMING NIGHTMARE

"I cannot fathom how you could define something as content-specific as a television guide as part of an operating system," said Andrew Harkavy of TV Host, a small Pennsylvania company that invented a television program guide to run on PCs. The company dimwittedly showed it off to Microsoft, which now plans to build its own version and include it for free in Windows 98. Duh. How else are Windows users going to find out when *Friends* is on?

# Well, what'll it be?



**VooDoo**



**DooDoo**

## Move up to 3Dfx Voodoo Graphics™ with the Power3D Graphics Accelerator.

Now your computer game graphics don't have to stink. TechWorks' Power3D™ Graphics Accelerator breathes new life into your favorite titles with powerful 3Dfx Voodoo Graphics. And delivers features like anti-aliasing, perspective-correct texture mapping and per-pixel special effects to take your games far beyond the same old 3D functionality.

Turn your system into a power arcade and play great new 3Dfx enabled games like F/A-18 Hornet™ 3.0 Korea, Quake®, Unreal™ and MYTH™.

Make graphics your number-one priority if your games look like number two.

Order today at [www.techworks.com](http://www.techworks.com) or call TechWorks at 1-800-434-4031.



**POWER3D™**

BY TECHWORKS



TechWorks: 4030 W. Braker Lane, Austin, TX 78759-5319, tel: 512-794-8533, fax: 512-794-8520

TechWorks U.K. Ltd.: 811-882 Plymouth Rd., Trading Estate, Slough, SL1 4PL, U.K., tel: +44 1753 898-500, fax: +44 1753 898-501

© 1998 TechWorks Inc: TechWorks and Power3D are registered trademarks of Technology Works, Inc. All other names including 3Dfx, Voodoo Graphics, PowerPC, Quake, Unreal, MYTH and F/A-18 Hornet 3.0 Korea are trademarks or registered trademarks of their respective companies.

Images above are actual screenshots from F/A-18 Hornet 3.0 Korea.

See the  
Platform Wars  
ad on page

# myth

THE FALLEN LORDS

GAME OF THE YEAR!

— MACWORLD

MACINTOSH GAME  
OF THE YEAR!

— CINET GAMECENTER

FREAKIN' AWESOME:  
HIGHEST RATING!

— MACADDICT

5 of 5 STARS:  
PERFECT!

— INSIDE MAC GAMES



For more information visit [www.bungie.com](http://www.bungie.com) or call 800 295-0060.

Myth: The Fallen Lords and bungie.net are trademarks of Bungie Software Products Corporation. All rights reserved. © 1997 Bungie Software Products Corporation.

**bungie.net**

**BUNGIE**